SONY

DIGITAL MASTER SWITCHER

DVS-M1000C

DIGITAL VIDEO SWITCHER

DVS-7000

DIGITAL MULTI KEYER

DMK-7000

DIGITAL VIDEO SWITCHER
DVS-7000A/7150/7200A

SWITCHER CONTROL PANEL
BKDS-7016/7016L/7017

SOURCE NAME DISPLAY UNIT
BKDS-7003

12 INPUT SERIAL DIGITAL BOARD
BKDS-7103

SERIAL DIGITAL INPUT BOARD
BKDS-7113

CRK ANALOG COMPONENT INPUT BOARD
BKDS-7134

SERIAL DIGITAL OUTPUT BOARD
BKDS-7163

FINE KEY/KER BORDER BOARD
BKDS-7271

COLOR CORRECTION BOARD
BKDS-7420

Contents

Additional information for the above models.

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DMK-7000 (SY)
DVS-7000 (SY)
DVS-M1000C (SY) J, E
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Broadcasting & Professional Systems Company

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Section 1
Location of Mounted Circuit Boards

DVS-7000A/7200A Digital Video Switcher **Page 1-3**

Option	Function name
BKDS-2031	Chromakey Board
BKDS-2032	Chromakey Upgrade Board
BKDS-2041	Frame Memory Board
BKDS-2070	Enhanced Wipe Generator Board
BKDS-7103	12 Input Serial Digital Board
BKDS-7110	Blank Input Adaptor Board
BKDS-7111	Analog Composite Input Board
BKDS-7113	Serial Digital Input Board
BKDS-7133	CRK Analog Component Input Board
BKDS-7161	Analog Composite Output Board
BKDS-7163	Serial Digital Output Board
BKDS-7270	Key Border Board
BKDS-7271	Fine Key/Key Border Board
BKDS-7250/7340	Mixer board (DVS-7200A only)
BKDS-7280	Fine Key/Key Border Board
BKDS-7420	Color Correction Board
BKDS-7445	Frame Memory Composite Adaptor Board
BKDS-7690	Redundant Power Supply Unit

DVS-7150 Digital Video Switcher **Page 1-7**

Option	Function name
BKDS-2031	Chromakey Board
BKDS-7110	Blank Input Adaptor Board
BKDS-7111	Analog Composite Input Board
BKDS-7113	Serial Digital Input Board
BKDS-7134	CRK Analog Component Input Board
BKDS-7161	Analog Composite Output Board
BKDS-7163	Serial Digital Output Board
BKDS-7280	ME PVW Board

BKDS-7017 Switcher Control Panel **Page 1-10**

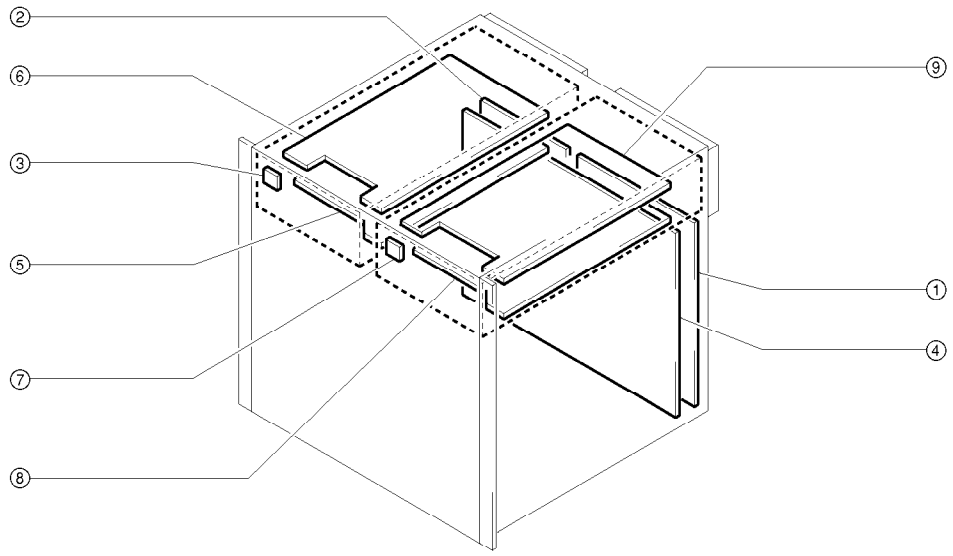
Option	Function name	
BKDS-7001	Source Name Display Unit	
BKDS-7003	Source Name Display Unit	
BKDS-7030	Source Name Display Unit	(*1)
BKDS-7031	Source Name Display Unit	(*1)
BKDS-7033	Memory Recall Control Panel Unit	(*1)
BKDS-7075	Memory Recall Control Panel Unit	(*1)
BKDS-7091	Power Supply Board	

(*1) : メンテナンスマニュアルパート2 Volume 1 1st Edition Revised 2を参照してください。
Refer to the volume 1 1st edition revised 2 of the maintenance manual part 2.

BKDS-7016/7016L Switcher Control Panel **Page 1-11**

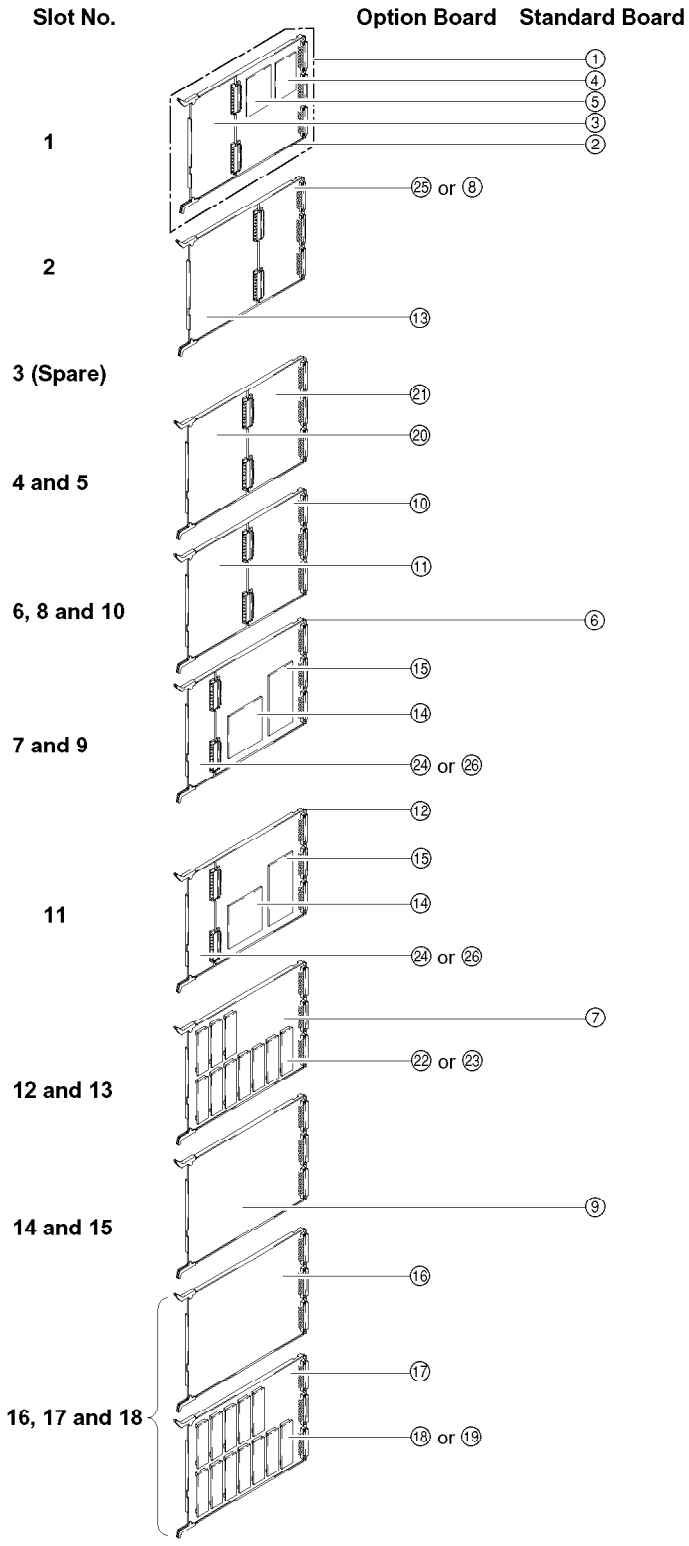
1-1. DVS-7000A/7200A

1. Except Plug-in Boards



No.	Board name	Circuit function	Model name
1	CN-1145	Connector Board	DVS-7000A/7200A
2	CN-1146A	Connector Board	
3	LE-55	LED Board	
4	MB-618	Mother Board	
5	RE-109	Power Supply DC-DC Board	
6	RE-110	Power Supply DC-DC Board	
7	LE-55	LED Board	BKDS-7690
8	RE-109	Power Supply AC-DC Board	
9	RE-110	Power Supply DC-DC Board	

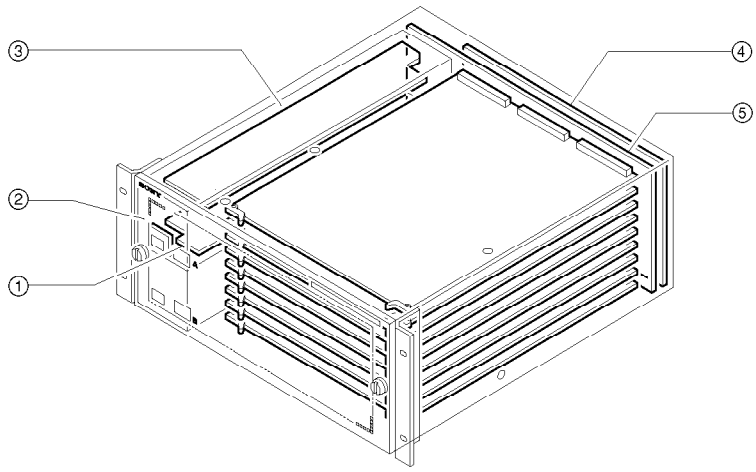
2. Plug-in Boards



No.	Board name	Circuit function	Model name
1	CPU-264A	CPU Assembly	DVS-7000A
	CPU-264B	CPU Assembly	DVS-7200A
2	CA-35A	Application Board	DVS-7000A
	CA-35B	Application Board	DVS-7200A
3	CPU-264	System Control Board	DVS-7000A/7200A
4	IF-758	Interface Board	
5	MEM-94	Memory Board	
6	MIX-35	Video Mixer Board	
7	OUT-9	Output Processor Board	
8	CC-81	Color Correction Board	BKDS-7420
9	XPT-16	Cross Point Board	DVS-7000A/7200A
10	CRK-10	Chromakey Board	BKDS-2031
11	CRK-11	Chromakey Upgrade Board	BKDS-2032
12	MIX-35	Video Mixer Board	BKDS-7340 (DVS-7200A)
13	MY-66	Frame Memory Board	BKDS-2041
14	WKG-12	Enhanced Wipe Generator Board	BKDS-2070
15	UP-10	ME PVW Board	BKDS-7280
16	DI-36	12 Input Serial Digital Board	BKDS-7103
17	ADC-21	Blank Input Adaptor Board	BKDS-7110
18	ADI-3	Analog Composite Input Board	BKDS-7111
19	DI-34	Serial Digital Input Board	BKDS-7113
20	ADC-22	Chromakey Analog Component Input Board	BKDS-7133
21	ENC-34	Encorder Board	
22	DA-94	Analog Composite Output Board	BKDS-7161
23	SD-48	Serial Digital Output Board	BKDS-7163
24	BD 26	Key Border Board	BKDS 7270
25	YC-59	Frame Memory Adaptor Board	BKDS-7445
26	BD-35	Key Border Board	BKDS-7271

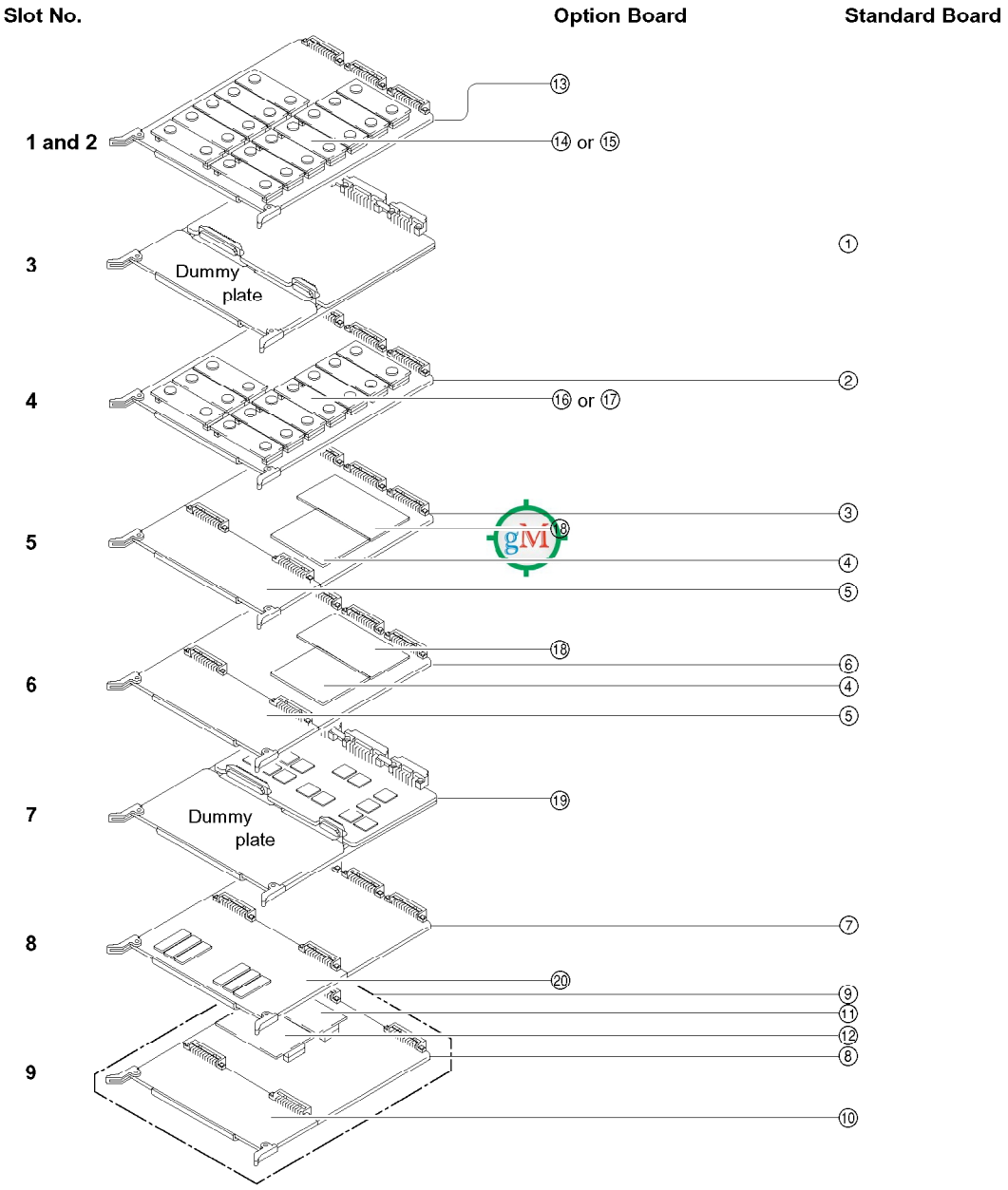
1-2. DVS-7150

1. Except Plug-in Boards



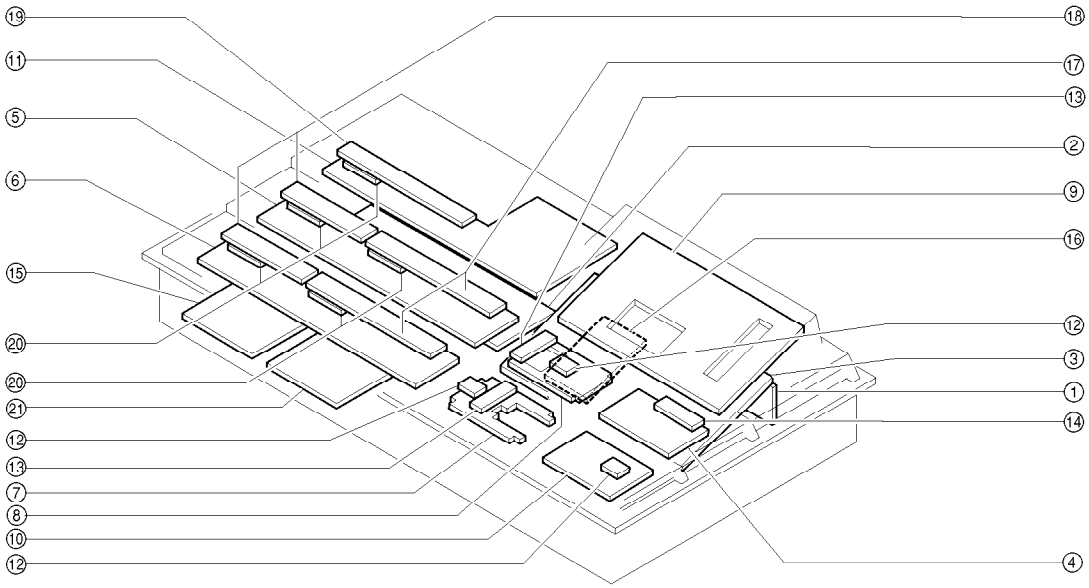
No.	Board name	Circuit function	Model name
1	RE-114	Power Supply AC-DC Board	DVS-7150
2	LE-156	LED Board	
3	RE 115A	Power Supply DC DC Board	
4	CN-1751	Connector Board	
5	MB-828	Mother Board	

2. Plug-in Boards



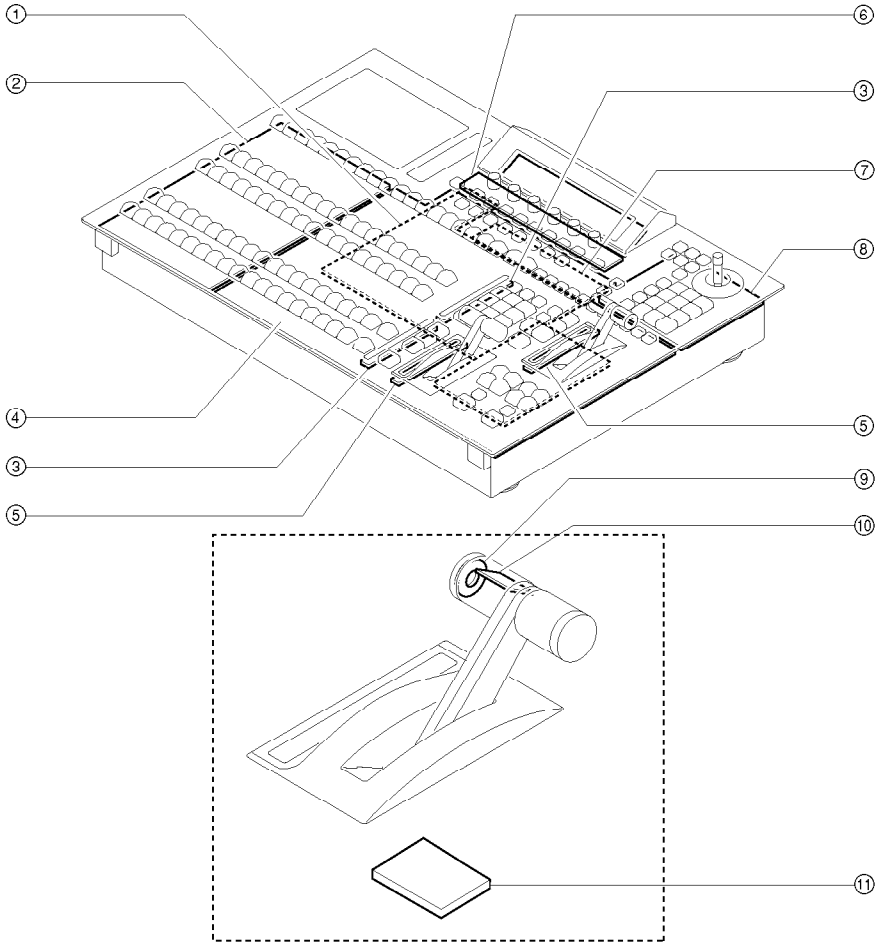
No.	Board name	Circuit function	Model name
1	XPT-15	Cross Point Board	DVS-7150
2	OUT-9	Output Processor Board	
3	MIX-35A	P/P Mixer Board	
4	WKG-12	Enhanced Wipe Generator Board	
5	BD-26	Key Border Board	
6	MIX-35B	M/E Mixer Board	
7	ENC-34A	CRK Analog Component Input Board	
8	CA-35	Application Board	
9	CPU-264	CPU Assembly	
10	CPU-264	System Control Board	
11	IF-729	Interface Board	
12	MEM-94	Memory Board	
13	ADC-21	Blank Input Adaptor Board	BKDS-7110
14	ADI-3	Analog Composite Input Board	BKDS-7111
15	DI-34	Serial Digital Input Board	BKDS-7113
16	DA-94	Analog Composite Output Board	BKDS-7161
17	SD-48	Serial Digital Output Board	BKDS-7163
18	UP 10	ME PVW Board	BKDS 7280
19	CRK-10	Chromakey Board	BKDS-2031
20	ADC-22	CRK Analog Component Input Board	BKDS-7134

1-3. BKDS-7017



No.	Board name	Circuit function	Model name
1	CN-1149	Connector Board	BKDS-7017
2	CN-1150	Connector Board	
3	CPU-246	System Control Board	
4	KY-324	Switch Board	
5	KY-389A	Switch Board	
6	KY-389B	Switch Board	
7	KY-391	Switch Board	
8	KY-392	Switch Board	
9	KY-394	Switch Board	
10	KY-440	Switch Board	
11	KY-441	Switch Board	
12	LE-142	LED Board	
13	LE-144	LED Board	
14	LE-146	LED Board	
15	RE-146	Power Supply Board	
16	IF-523	Control Port Expansion Board	BKDS-7001
17	LE-147	LED Board	BKDS-7003
18	LE-148	LED Board	
19	LE 180	LED Board	
20	DC-92	Display Board	
21	RE-146	Power Supply Board	BKDS-7091

1-4. BKDS-7016/7016L



No.	Board name	Circuit function	Model name
1	CPU-283	System Control Board	BKDS-7016/7016L
2	KY-444	Switch Board (BKDS-7016 only)	
3	LE-207	LED Board	
4	KY-442	Switch Board	
5	LE-208	LED Board	
6	VR-250	Rotary Encoder Board	
7	CN-1764	Connector Board	
8	KY-443	Switch Board	
9	DU 28	Switch Contact Board	
10	SW-949	Switch Board	
11	CN-1765	Connector Board	

Section 2
Overall Block Diagrams & Frame Wirings

DVS-7000A	Digital Video Switcher	Overall Frame Wiring	**Page 2-2** **Page 2-4**
DVS-7200A	Digital Video Switcher	Overall Frame Wiring	**Page 2-6** **Page 2-4**
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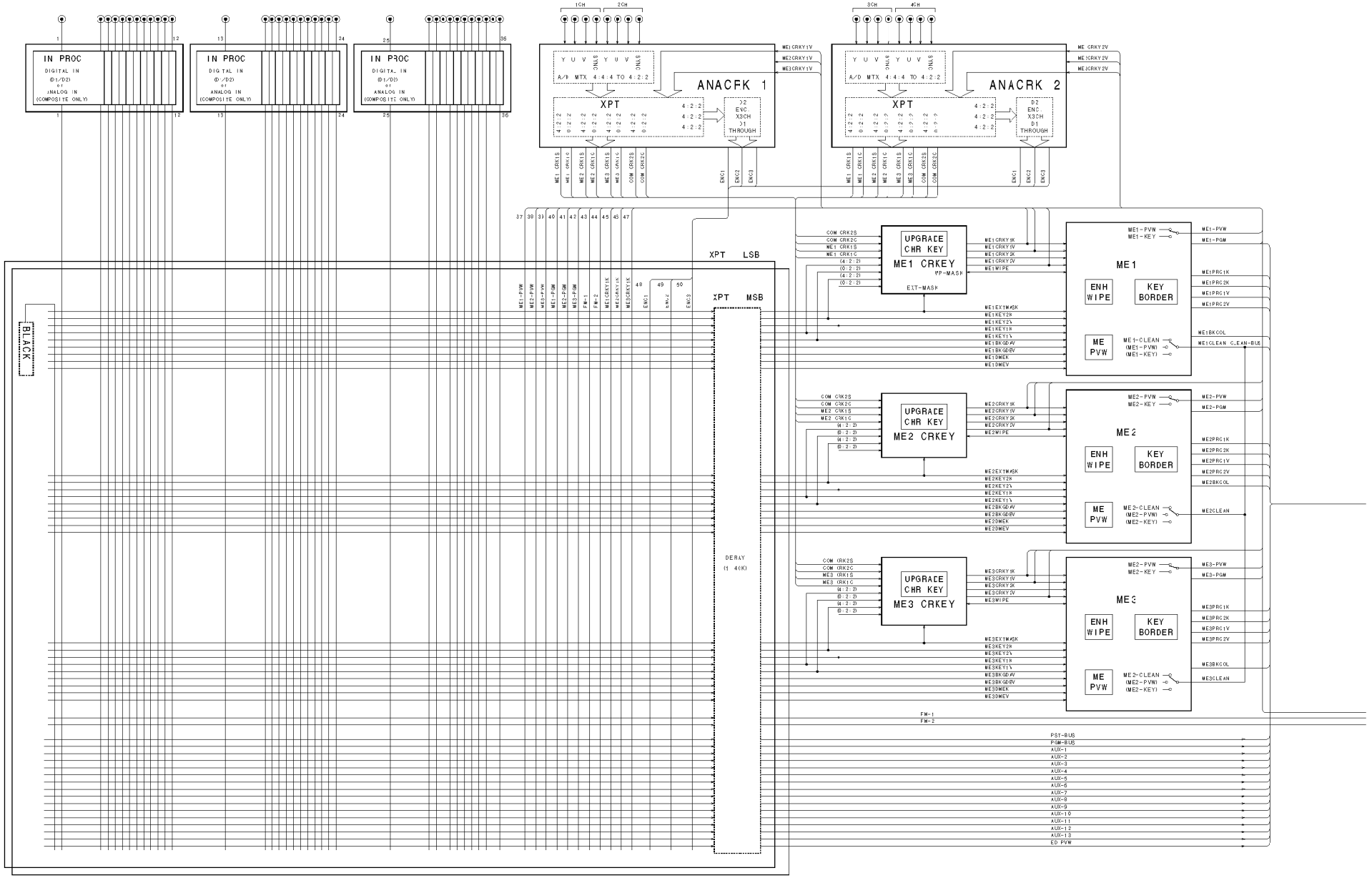
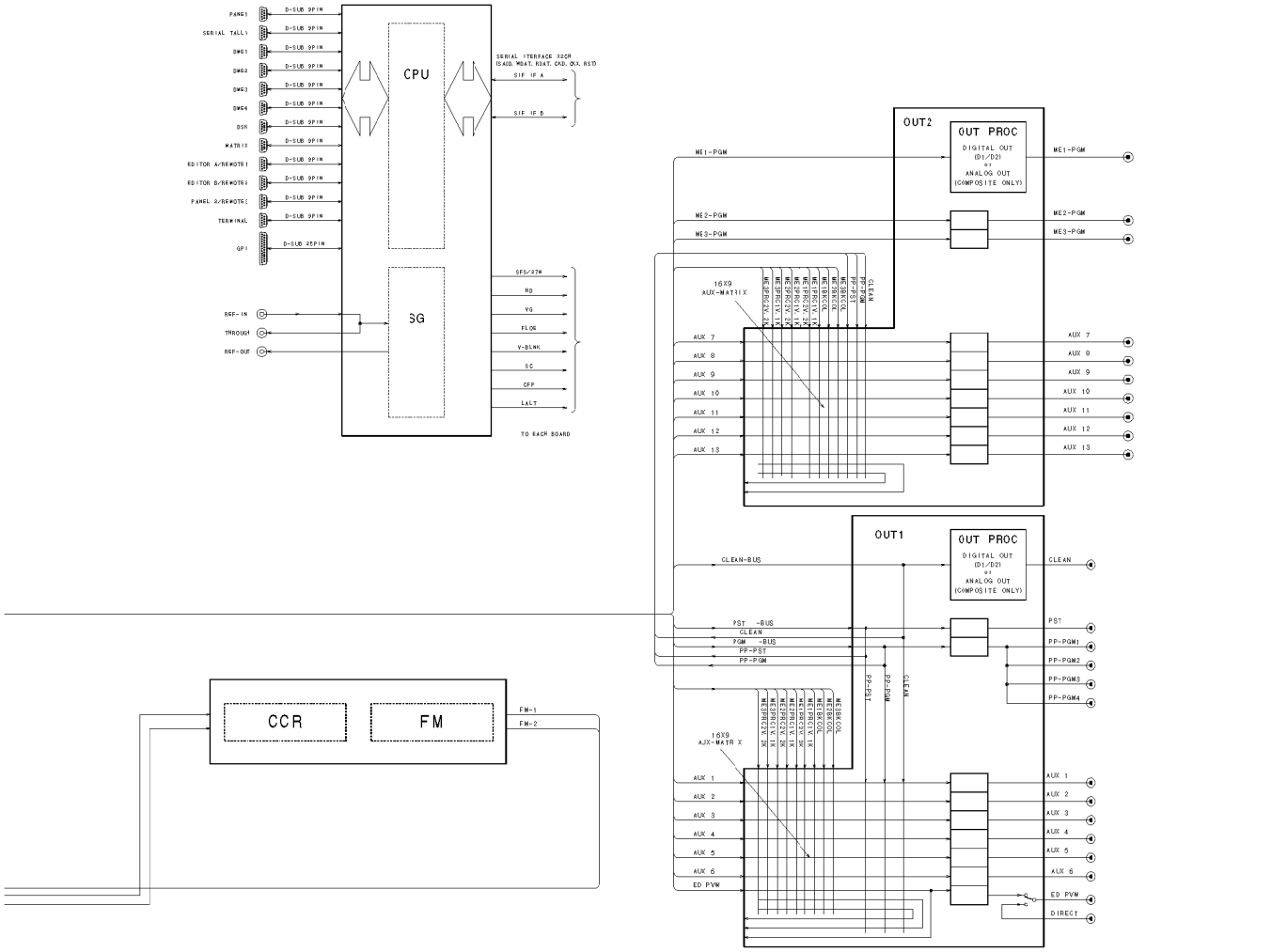
BKDS-7017	Switcher Control Panel	Overall Frame Wiring	**Page 2-10** **Page 2-13**
BKDS-7016/7016L	Switcher Control Panel	Overall Frame Wiring	**Page 2-21** **Page 2-22**

2-1. DVS-7000A
DVS-7000A OVERALL BLOCK

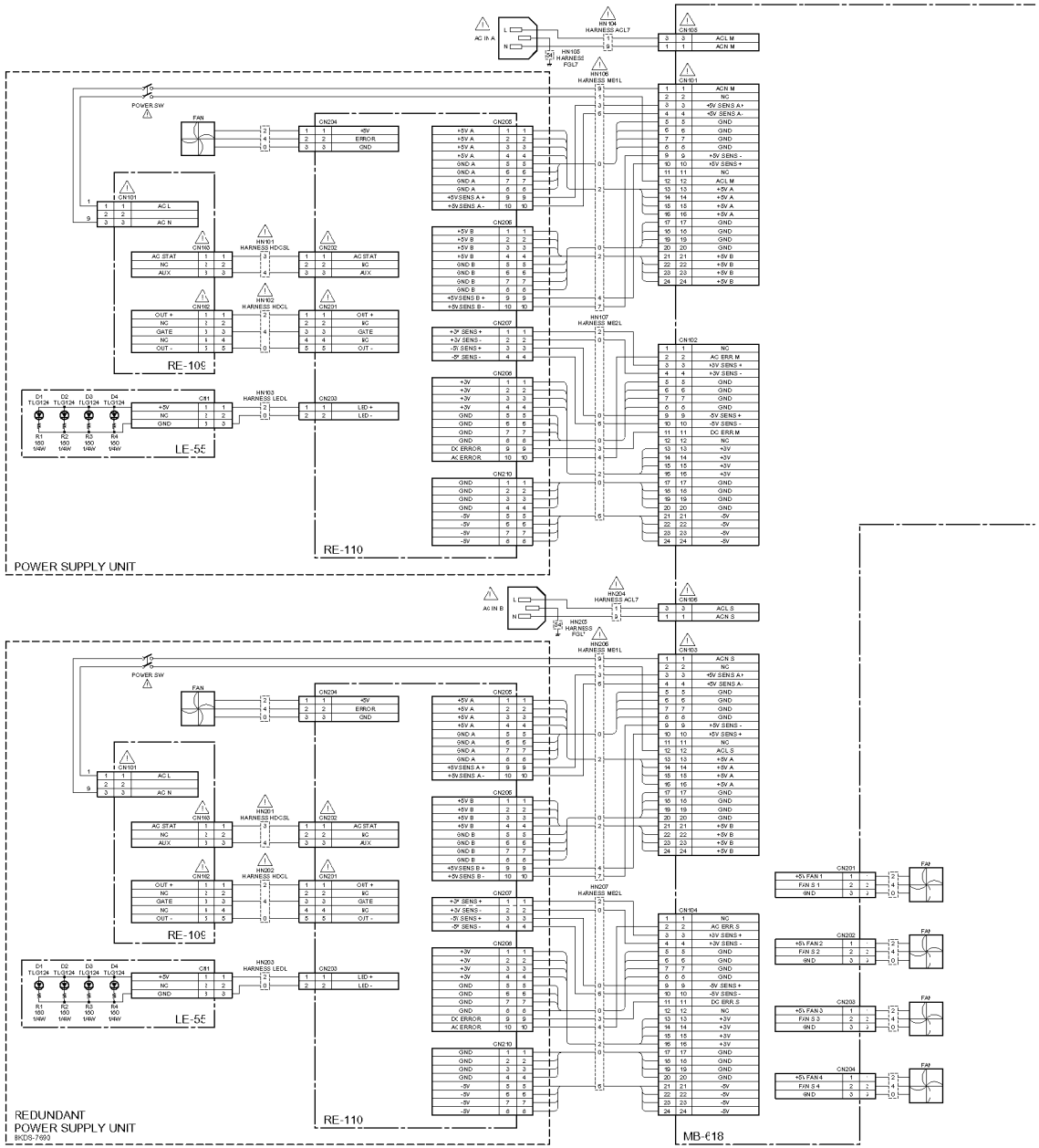


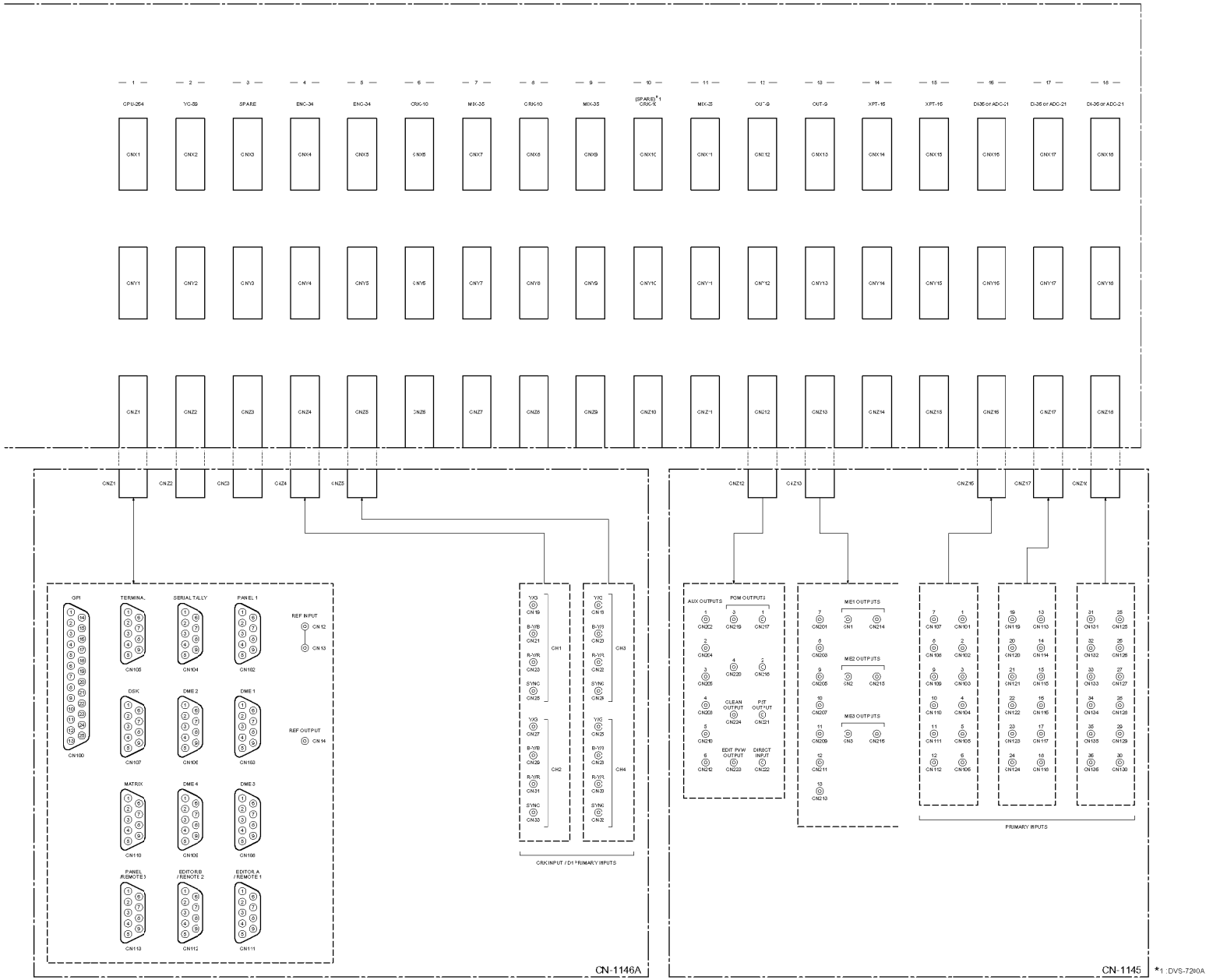


OVERALL BLOCK

DVS-7000A

DVS-7000A/7200A FRAME WIRING

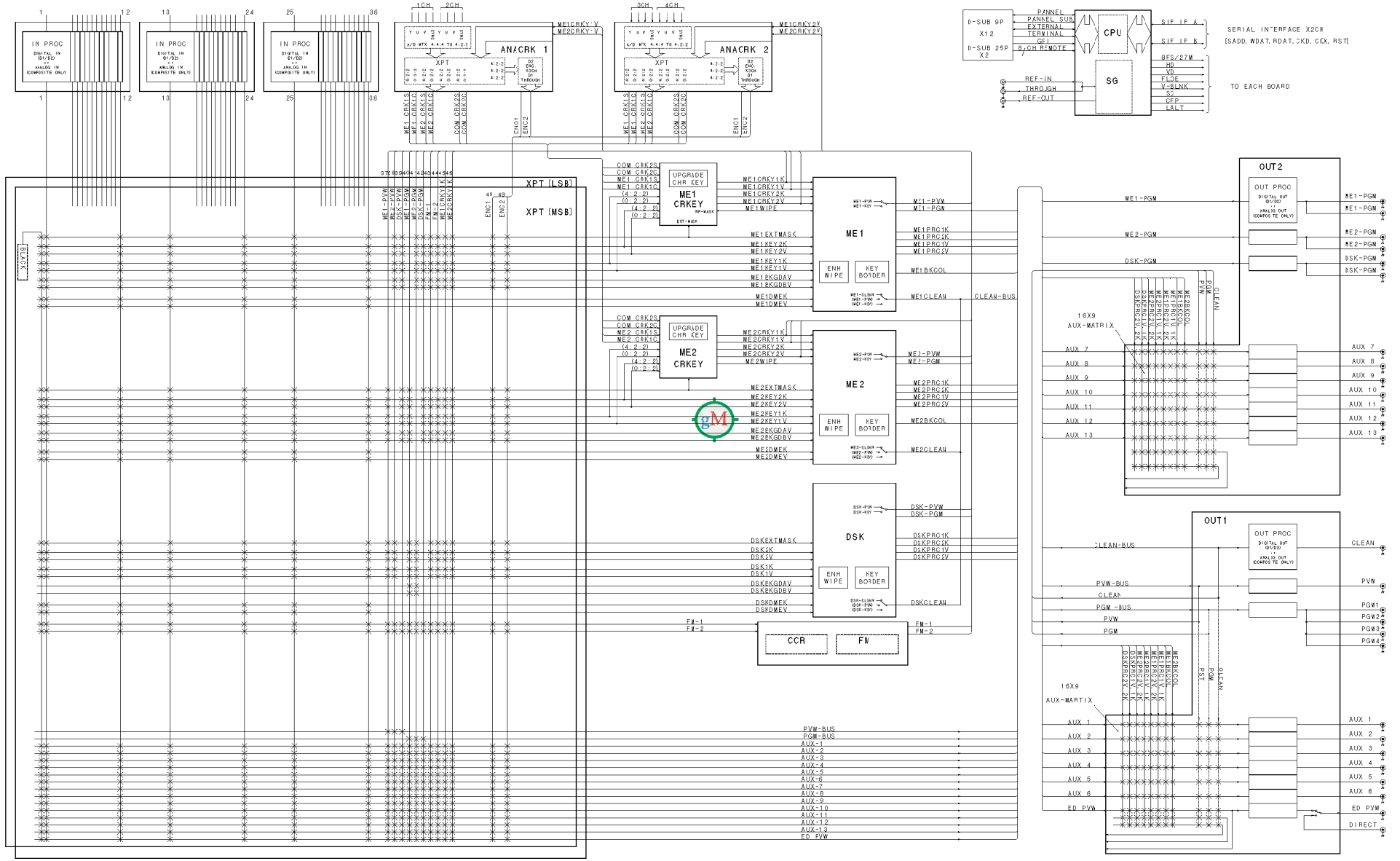




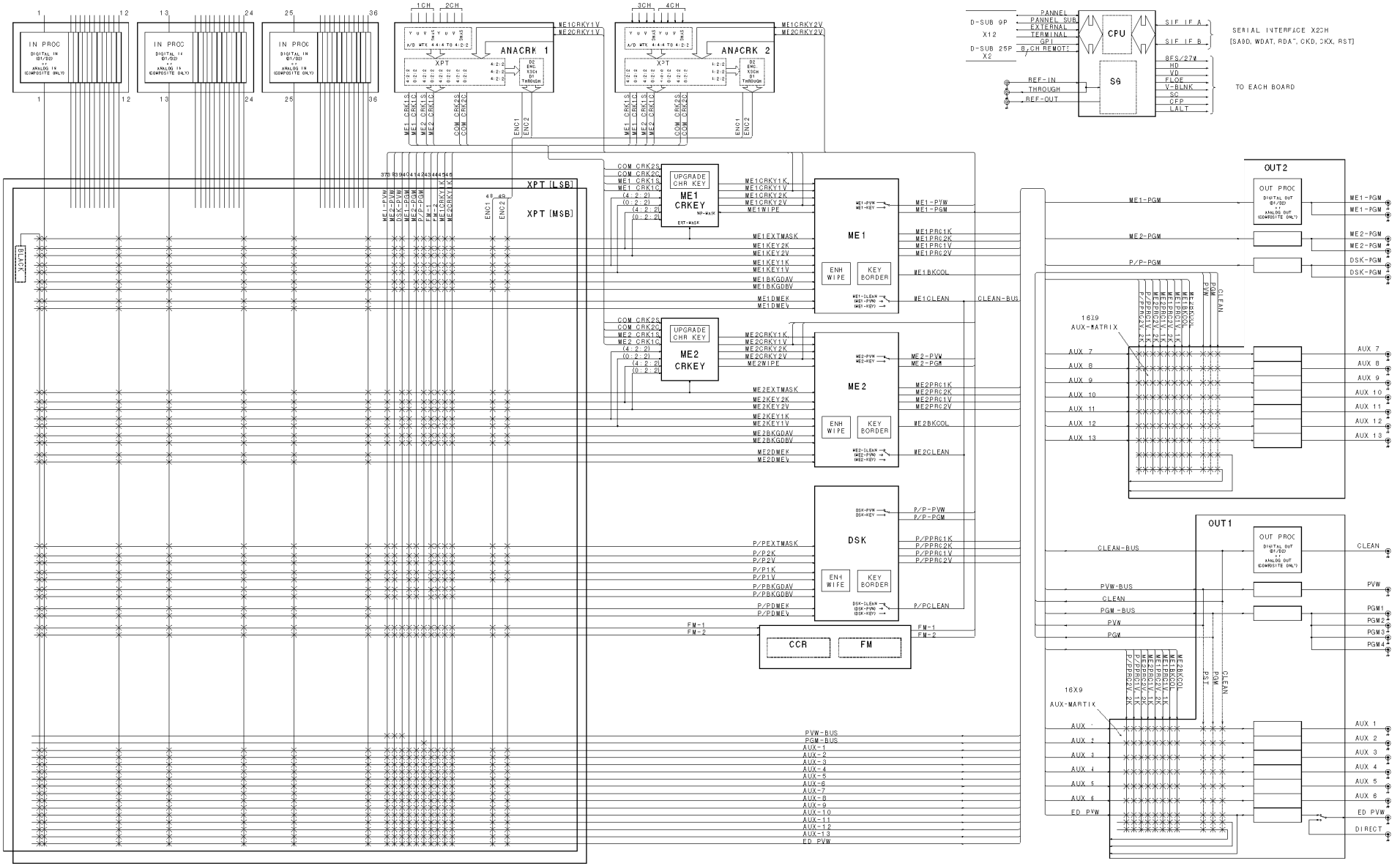
FRAME WIRING

DVS-7000A/DVS-7200A
BKDS-7690

2-2. DVS-7200A (2ME SYSTEM)
DVS-7200A OVERALL BLOCK

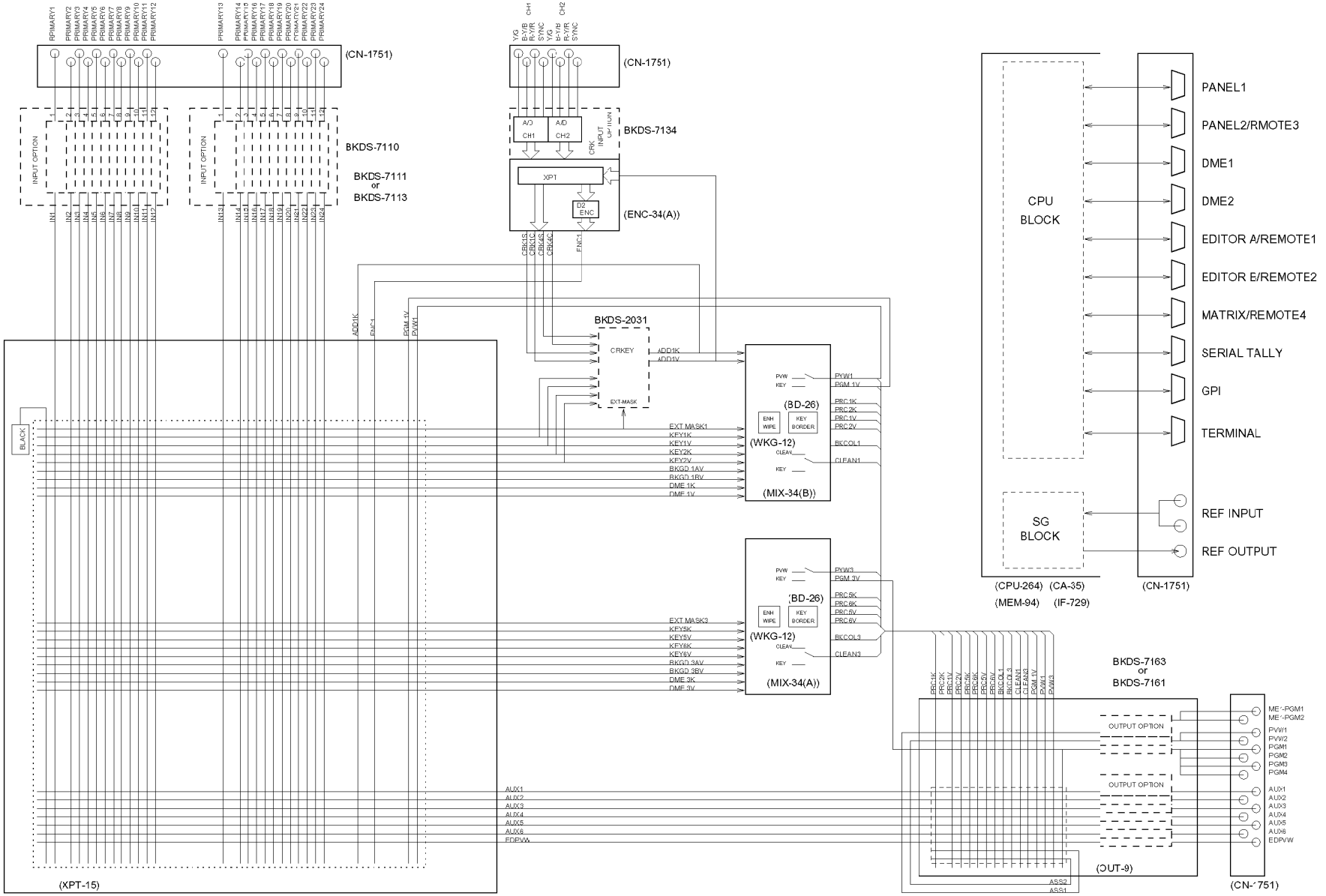


DVS-7200A (2.5ME SYSTEM)
DVS-7200A OVERALL BLOCK



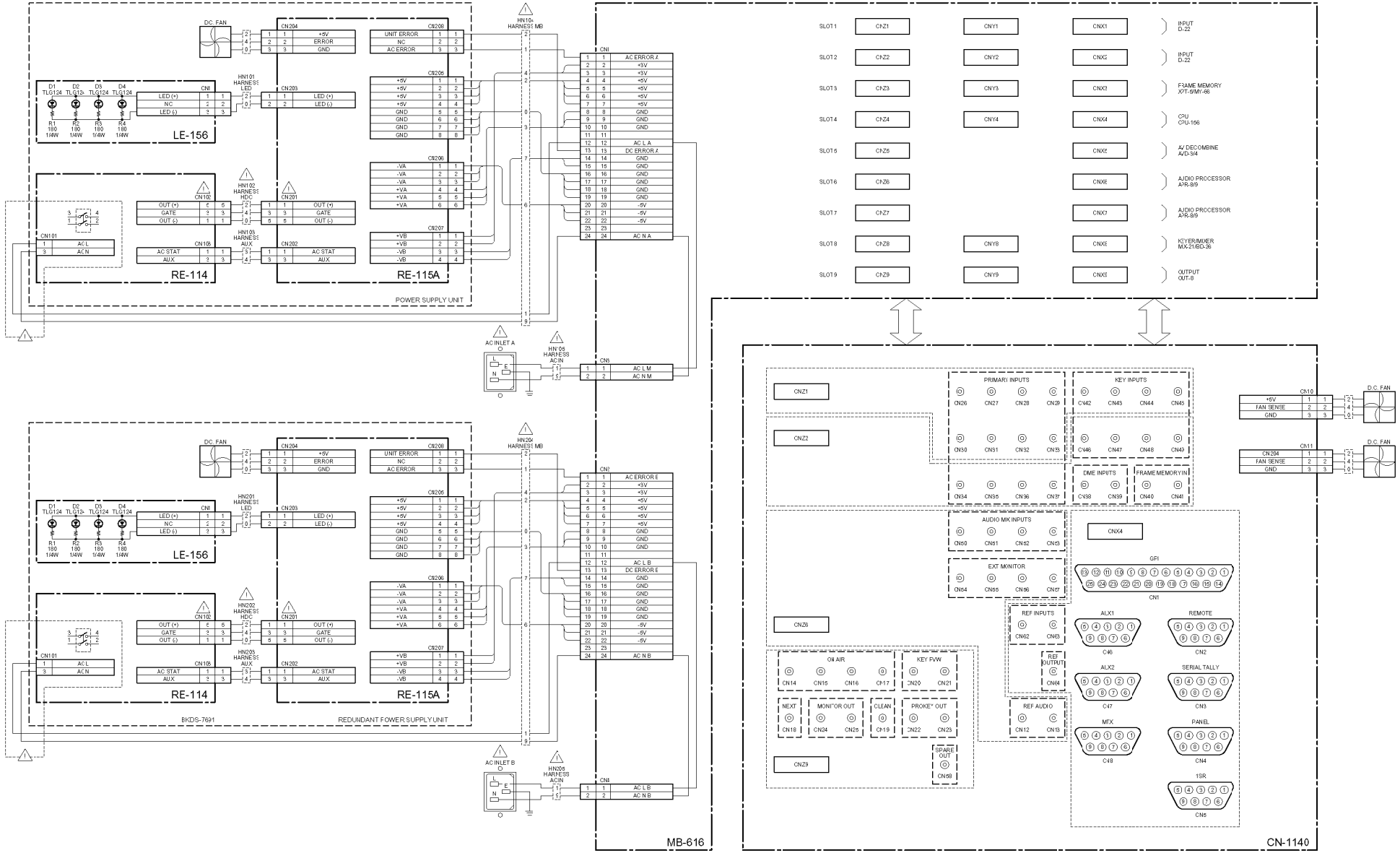
OVERALL BLOCK
DVS-7200A

2-3. DVS-7150
DVS-7150 OVERALL BLOCK



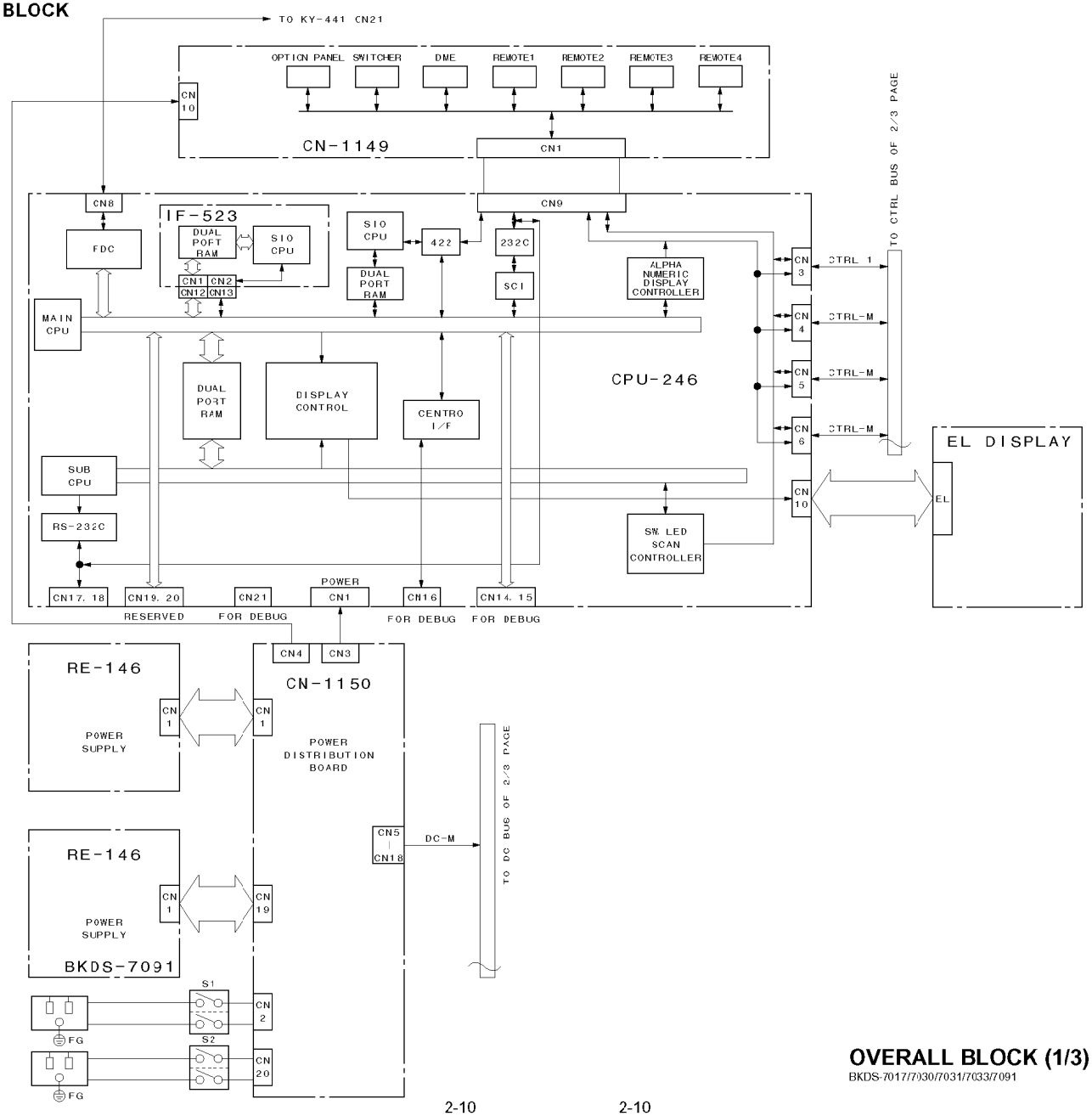
OVERALL BLOCK
DVS-7150

DVS-7150 FRAME WIRING



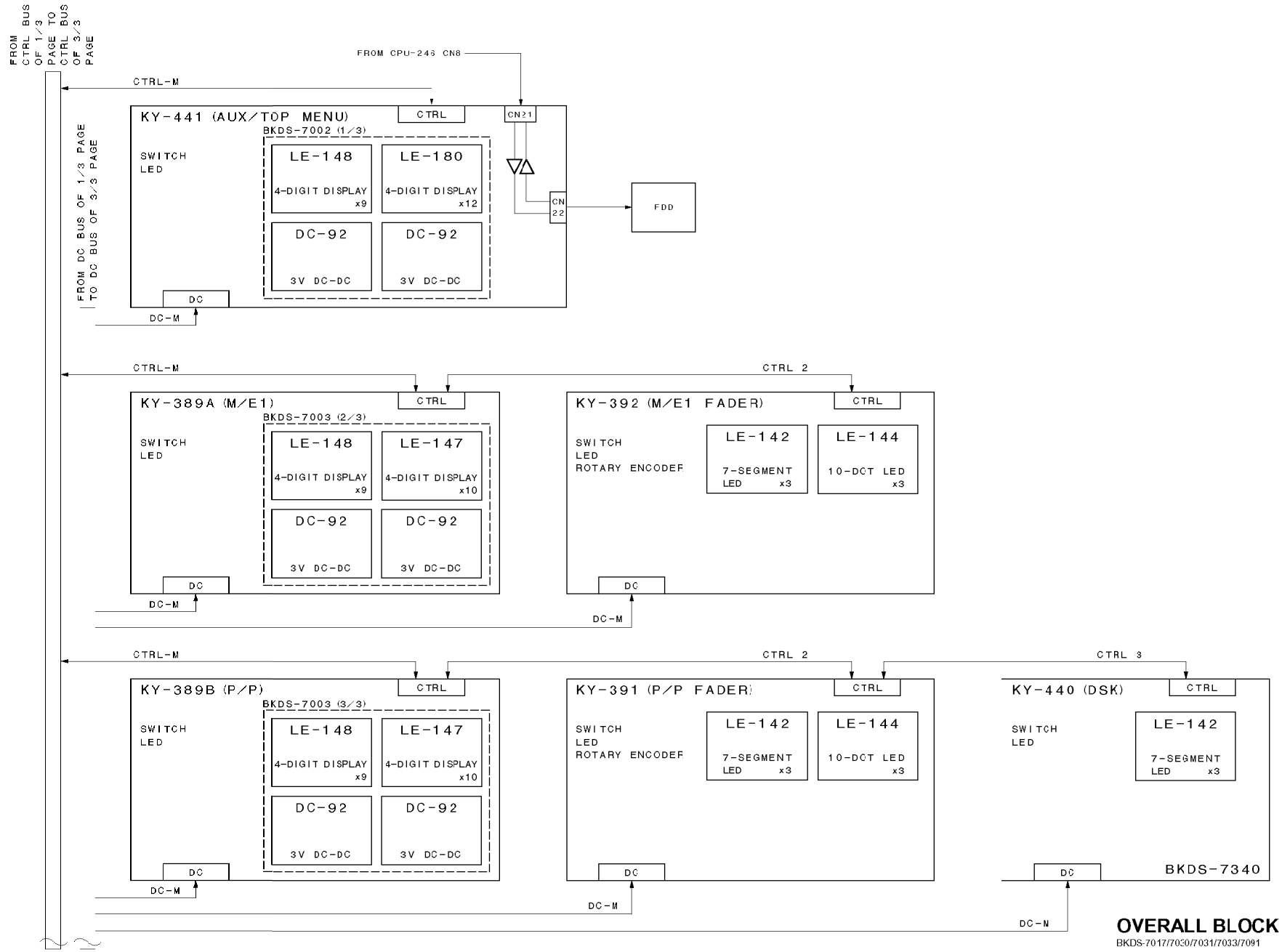
FRAME WIRING
DVS-7150

2-4. BKDS-7017
BKDS-7017 OVERALL BLOCK



OVERALL BLOCK (1/3)
BKDS-7017/7030/7031/7033/7091

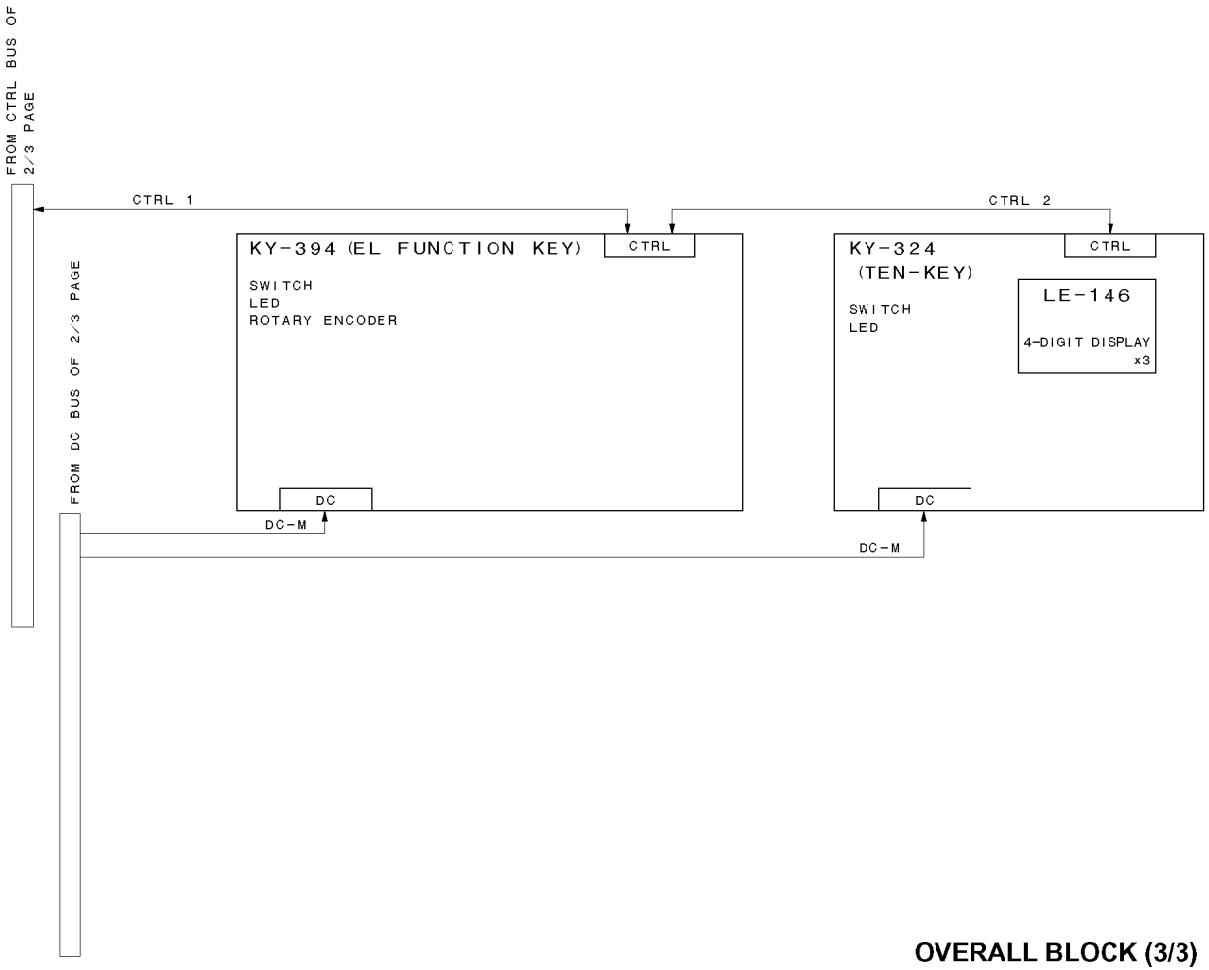
http://getMANUAL.com
BKDS-7017 OVERALL (2/3)



OVERALL BLOCK (2/3)

BKDS-7017/7030/7031/7033/7091

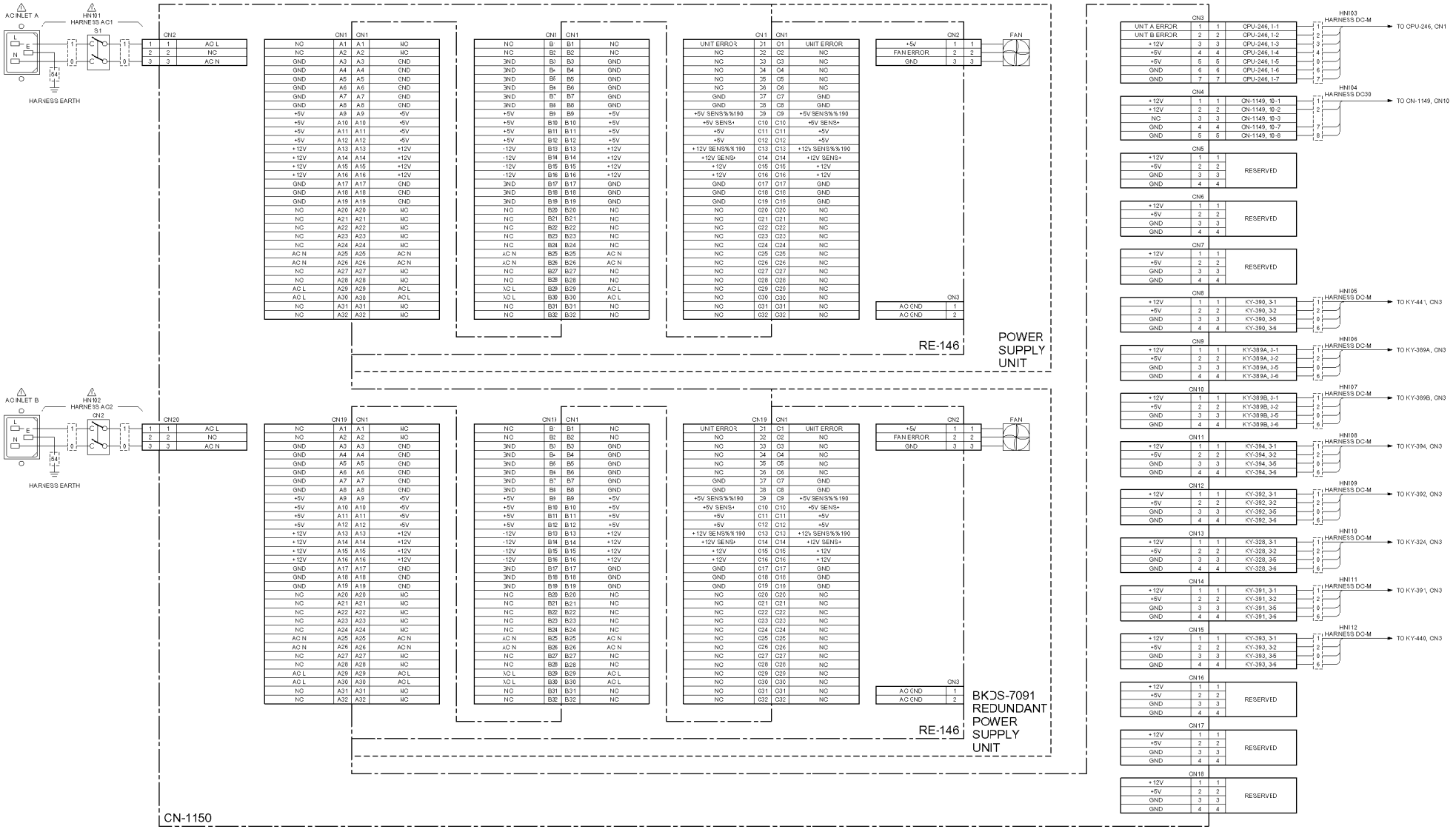
 BKDS-7017 OVERALL (3/3)



OVERALL BLOCK (3/3)

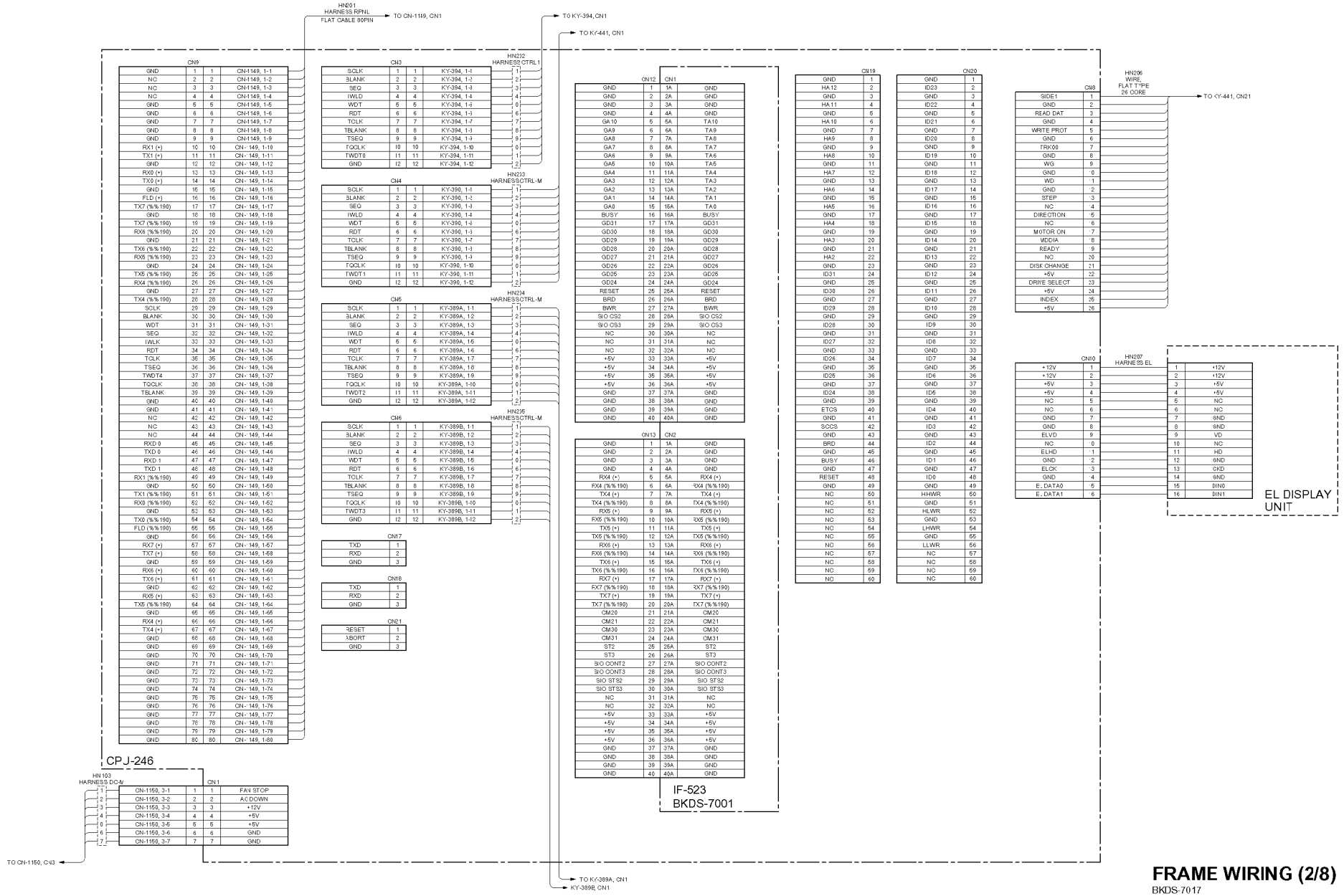
BKDS-7017/7030/7031/7033/7091

BKDS-7017 FRAME WIRING



FRAME WIRING (1/8)
BKDS-7017

BKDS-7017 FRAME (2/8)



CN9			
GND	1	1	CN-1149, 1-1
NC	2	2	CN-1149, 1-2
NC	3	3	CN-1149, 1-3
NC	4	4	CN-1149, 1-4
GND	5	5	CN-1149, 1-5
GND	6	6	CN-1149, 1-6
GND	7	7	CN-1149, 1-7
GND	8	8	CN-1149, 1-8
GND	9	9	CN-1149, 1-9
RX1 (+)	10	10	CN-1149, 1-10
TX1 (+)	11	11	CN-1149, 1-11
GND	12	12	CN-1149, 1-12
RX0 (+)	13	13	CN-1149, 1-13
TX0 (+)	14	14	CN-1149, 1-14
GND	15	15	CN-1149, 1-15
FLD (+)	16	16	CN-1149, 1-16
TX7 (%%190)	17	17	CN-1149, 1-17
GND	18	18	CN-1149, 1-18
TX7 (%%190)	19	19	CN-1149, 1-19
RX6 (%%190)	20	20	CN-1149, 1-20
GND	21	21	CN-1149, 1-21
TX6 (%%190)	22	22	CN-1149, 1-22
RX5 (%%190)	23	23	CN-1149, 1-23
GND	24	24	CN-1149, 1-24
TX5 (%%190)	25	25	CN-1149, 1-25
RX4 (%%190)	26	26	CN-1149, 1-26
GND	27	27	CN-1149, 1-27
TX4 (%%190)	28	28	CN-1149, 1-28
SCLK	29	29	CN-1149, 1-29
BLANK	30	30	CN-1149, 1-30
WDT	31	31	CN-1149, 1-31
SEQ	32	32	CN-1149, 1-32
IWLK	33	33	CN-1149, 1-33
RDT	34	34	CN-1149, 1-34
TCLK	35	35	CN-1149, 1-35
TSEQ	36	36	CN-1149, 1-36
TWDT4	37	37	CN-1149, 1-37
TQCLK	38	38	CN-1149, 1-38
TBLANK	39	39	CN-1149, 1-39
GND	40	40	CN-1149, 1-40
GND	41	41	CN-1149, 1-41
NC	42	42	CN-1149, 1-42
NC	43	43	CN-1149, 1-43
NC	44	44	CN-1149, 1-44
RXD 0	45	45	CN-1149, 1-45
TXD 0	46	46	CN-1149, 1-46
RXD 1	47	47	CN-1149, 1-47
TXD 1	48	48	CN-1149, 1-48
RX1 (%%190)	49	49	CN-1149, 1-49
GND	50	50	CN-1149, 1-50
TX1 (%%190)	51	51	CN-1149, 1-51
RX0 (%%190)	52	52	CN-1149, 1-52
GND	53	53	CN-1149, 1-53
TX0 (%%190)	54	54	CN-1149, 1-54
FLD (%%190)	55	55	CN-1149, 1-55
GND	56	56	CN-1149, 1-56
RX7 (+)	57	57	CN-1149, 1-57
TX7 (+)	58	58	CN-1149, 1-58
GND	59	59	CN-1149, 1-59
RX6 (+)	60	60	CN-1149, 1-60
TX6 (+)	61	61	CN-1149, 1-61
GND	62	62	CN-1149, 1-62
RX5 (+)	63	63	CN-1149, 1-63
TX5 (%%190)	64	64	CN-1149, 1-64
GND	65	65	CN-1149, 1-65
RX4 (+)	66	66	CN-1149, 1-66
TX4 (+)	67	67	CN-1149, 1-67
GND	68	68	CN-1149, 1-68
GND	69	69	CN-1149, 1-69
GND	70	70	CN-1149, 1-70
GND	71	71	CN-1149, 1-71
GND	72	72	CN-1149, 1-72
GND	73	73	CN-1149, 1-73
GND	74	74	CN-1149, 1-74
GND	75	75	CN-1149, 1-75
GND	76	76	CN-1149, 1-76
GND	77	77	CN-1149, 1-77
GND	78	78	CN-1149, 1-78
GND	79	79	CN-1149, 1-79
GND	80	80	CN-1149, 1-80

CN3			
SCLK	1	1	KY-394, 1-1
BLANK	2	2	KY-394, 1-2
SEQ	3	3	KY-394, 1-3
IWLD	4	4	KY-394, 1-4
WDT	5	5	KY-394, 1-5
RDT	6	6	KY-394, 1-6
TCLK	7	7	KY-394, 1-7
TBLANK	8	8	KY-394, 1-8
TSEQ	9	9	KY-394, 1-9
TQCLK	10	10	KY-394, 1-10
TWDT0	11	11	KY-394, 1-11
GND	12	12	KY-394, 1-12

CN4			
SCLK	1	1	KY-390, 1-1
BLANK	2	2	KY-390, 1-2
SEQ	3	3	KY-390, 1-3
IWLD	4	4	KY-390, 1-4
WDT	5	5	KY-390, 1-5
RDT	6	6	KY-390, 1-6
TCLK	7	7	KY-390, 1-7
TBLANK	8	8	KY-390, 1-8
TSEQ	9	9	KY-390, 1-9
TQCLK	10	10	KY-390, 1-10
TWDT1	11	11	KY-390, 1-11
GND	12	12	KY-390, 1-12

CN5			
SCLK	1	1	KY-389A, 1-1
BLANK	2	2	KY-389A, 1-2
SEQ	3	3	KY-389A, 1-3
IWLD	4	4	KY-389A, 1-4
WDT	5	5	KY-389A, 1-5
RDT	6	6	KY-389A, 1-6
TCLK	7	7	KY-389A, 1-7
TBLANK	8	8	KY-389A, 1-8
TSEQ	9	9	KY-389A, 1-9
TQCLK	10	10	KY-389A, 1-10
TWDT2	11	11	KY-389A, 1-11
GND	12	12	KY-389A, 1-12

CN6			
SCLK	1	1	KY-389B, 1-1
BLANK	2	2	KY-389B, 1-2
SEQ	3	3	KY-389B, 1-3
IWLD	4	4	KY-389B, 1-4
WDT	5	5	KY-389B, 1-5
RDT	6	6	KY-389B, 1-6
TCLK	7	7	KY-389B, 1-7
TBLANK	8	8	KY-389B, 1-8
TSEQ	9	9	KY-389B, 1-9
TQCLK	10	10	KY-389B, 1-10
TWDT3	11	11	KY-389B, 1-11
GND	12	12	KY-389B, 1-12

CN17	
TXD	1
RXD	2
GND	3

CN18	
TXD	1
RXD	2
GND	3

CN21	
RESET	1
XBORT	2
GND	3

CN12			
GND	1	1A	GND
GND	2	2A	GND
GND	3	3A	GND
GND	4	4A	GND
GA10	5	5A	TA10
GA9	6	6A	TA9
GA8	7	7A	TA8
GA7	8	8A	TA7
GA6	9	9A	TA6
GA5	10	10A	TA5
GA4	11	11A	TA4
GA3	12	12A	TA3
GA2	13	13A	TA2
GA1	14	14A	TA1
GA0	15	15A	TA0
BUSY	16	16A	BUSY
GD31	17	17A	GD31
GD30	18	18A	GD30
GD29	19	19A	GD29
GD28	20	20A	GD28
GD27	21	21A	GD27
GD26	22	22A	GD26
GD25	23	23A	GD26
GD24	24	24A	GD24
RESET	25	25A	RESET
BRD	26	26A	BRD
BWR	27	27A	BWR
SIO CS2	28	28A	SIO CS2
SIO CS3	29	29A	SIO CS3
NC	30	30A	NC
NC	31	31A	NC
NC	32	32A	NC
+5V	33	33A	+5V
+5V	34	34A	+5V
+5V	35	35A	+5V
+5V	36	36A	+5V
GND	37	37A	GND
GND	38	38A	GND
GND	39	39A	GND
GND	40	40A	GND

CN13			
GND	1	1A	GND
GND	2	2A	GND
GND	3	3A	GND
GND	4	4A	GND
RX4 (+)	5	5A	RX4 (+)
RX4 (%%190)	6	6A	RX4 (%%190)
TX4 (+)	7	7A	TX4 (+)
TX4 (%%190)	8	8A	TX4 (%%190)
RX5 (+)	9	9A	RX5 (+)
RX5 (%%190)	10	10A	RX5 (%%190)
TX5 (+)	11	11A	TX5 (+)
TX5 (%%190)	12	12A	TX5 (%%190)
RX6 (+)	13	13A	RX6 (+)
RX6 (%%190)	14	14A	RX6 (%%190)
TX6 (+)	15	15A	TX6 (+)
TX6 (%%190)	16	16A	TX6 (%%190)
RX7 (+)	17	17A	RX7 (+)
RX7 (%%190)	18	18A	RX7 (%%190)
TX7 (+)	19	19A	TX7 (+)
TX7 (%%190)	20	20A	TX7 (%%190)
CM20	21	21A	CM20
CM21	22	22A	CM21
CM30	23	23A	CM30
CM31	24	24A	CM31
ST2	25	25A	ST2
ST3	26	26A	ST3
SIO CONT2	27	27A	SIO CONT2
SIO CONT3	28	28A	SIO CONT3
SIO STS2	29	29A	SIO STS2
SIO ST33	30	30A	SIO ST33
NC	31	31A	NC
NC	32	32A	NC
+5V	33	33A	+5V
+5V	34	34A	+5V
+5V	35	35A	+5V
+5V	36	36A	+5V
GND	37	37A	GND
GND	38	38A	GND
GND	39	39A	GND
GND	40	40A	GND

CN19			
GND	1		
HA12	2		
GND	3		
HA11	4		
GND	5		
HA10	6		
GND	7		
HA9	8		
GND	9		
HA8	10		
GND	11		
HA7	12		
GND	13		
HA6	14		
GND	15		
HA5	16		
GND	17		
HA4	18		
GND	19		
HA3	20		
GND	21		
HA2	22		
GND	23		
ID31	24		
GND	25		
ID30	26		
GND	27		
ID29	28		
GND	29		
ID28	30		
GND	31		
ID27	32		
GND	33		
ID26	34		
GND	35		
ID25	36		
GND	37		
ID24	38		
GND	39		
ETCS	40		
GND	41		
SCCS	42		
GND	43		
BRD	44		
GND	45		
BUSY	46		
GND	47		
RESET	48		
GND	49		
NC	50		
NC	51		
NC	52		
NC	53		
NC	54		
NC	55		
NC	56		
NC	57		
NC	58		
NC	59		
NC	60		

CN20			
GND	1		
ID23	2		
GND	3		
ID22	4		
GND	5		
ID21	6		
GND	7		
ID20	8		
GND	9		
ID19	10		
GND	11		
ID18	12		
GND	13		
ID17	14		
GND	15		
ID16	16		
GND	17		
ID15	18		
GND	19		
ID14	20		
GND	21		
ID13	22		
GND	23		
ID12	24		
GND	25		
ID11	26		
GND	27		
ID10	28		
GND	29		
ID9	30		
GND	31		
ID8	32		
GND	33		
ID7	34		
GND	35		
ID6	36		
GND	37		
ID5	38		
GND	39		
ID4	40		
GND	41		
ID3	42		
GND	43		
ID2	44		
GND	45		
ID1	46		
GND	47		
ID0	48		
GND	49		
HHWR	50		
GND	51		
HLWR	52		
GND	53		
LHWR	54		
GND	55		
LLWR	56		
NC	57		
NC	58		
NC	59		
NC	60		

CN8	
SIDE1	1
GND	2
READ DAT	3
GND	4
WRITE PROT	5
GND	6
TRK00	7
GND	8
WG	9
GND	10
WD	11
GND	12
STEP	13
NC	14
DIRECTION	15
NC	16
MOTOR ON	17
WDDIA	18
READY	19
NC	20
DISK CHANGE	21
+5V	22
DRIVE SELECT	23
+5V	24
INDEX	25
+5V	26

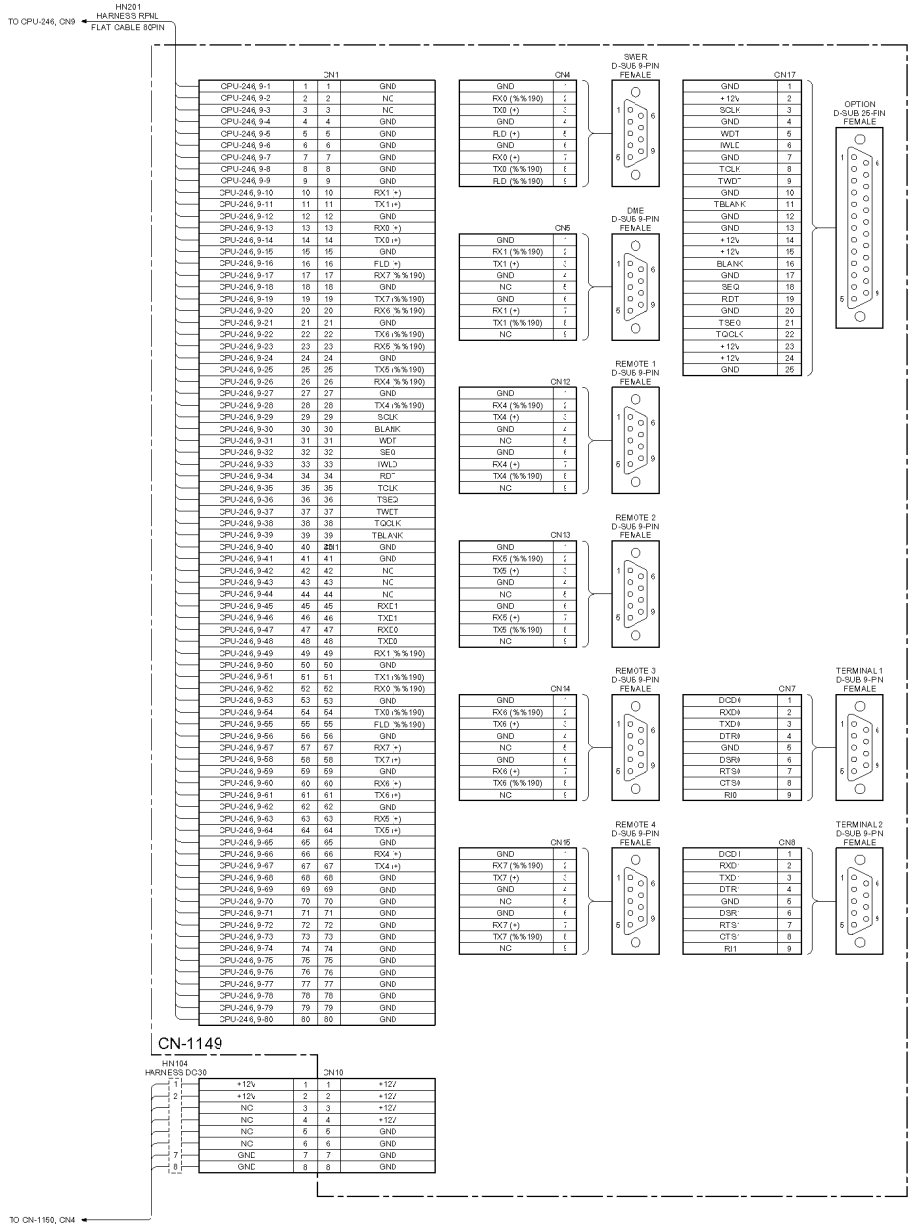
CN10			
+12V	1	1	+12V
+12V	2	2	+12V
+5V	3	3	+5V
+5V	4	4	+5V
NC	5	5	NC
NC	6	6	NC
GND	7	7	GND
GND	8	8	GND
ELVD	9	9	VD
NC	10	10	NC
ELHD	11	11	HD
GND	12	12	GND
ELCK	13	13	CKD
GND	14	14	GND
E_DATA0	15	15	DIN0
E_DATA1	16	16	DIN1

HN103 HARNESS DC-N		CN1		
1	CN-1150, 3-1	1	1	FAN STOP
2	CN-1150, 3-2	2	2	AC DOWN
3	CN-1150, 3-3	3	3	+12V
4	CN-1150, 3-4	4	4	+5V
5	CN-1150, 3-5	5	5	+5V
6	CN-1150, 3-6	6	6	GND
7	CN-1150, 3-7	7	7	GND

FRAME WIRING (2/8)

BKDS-7017

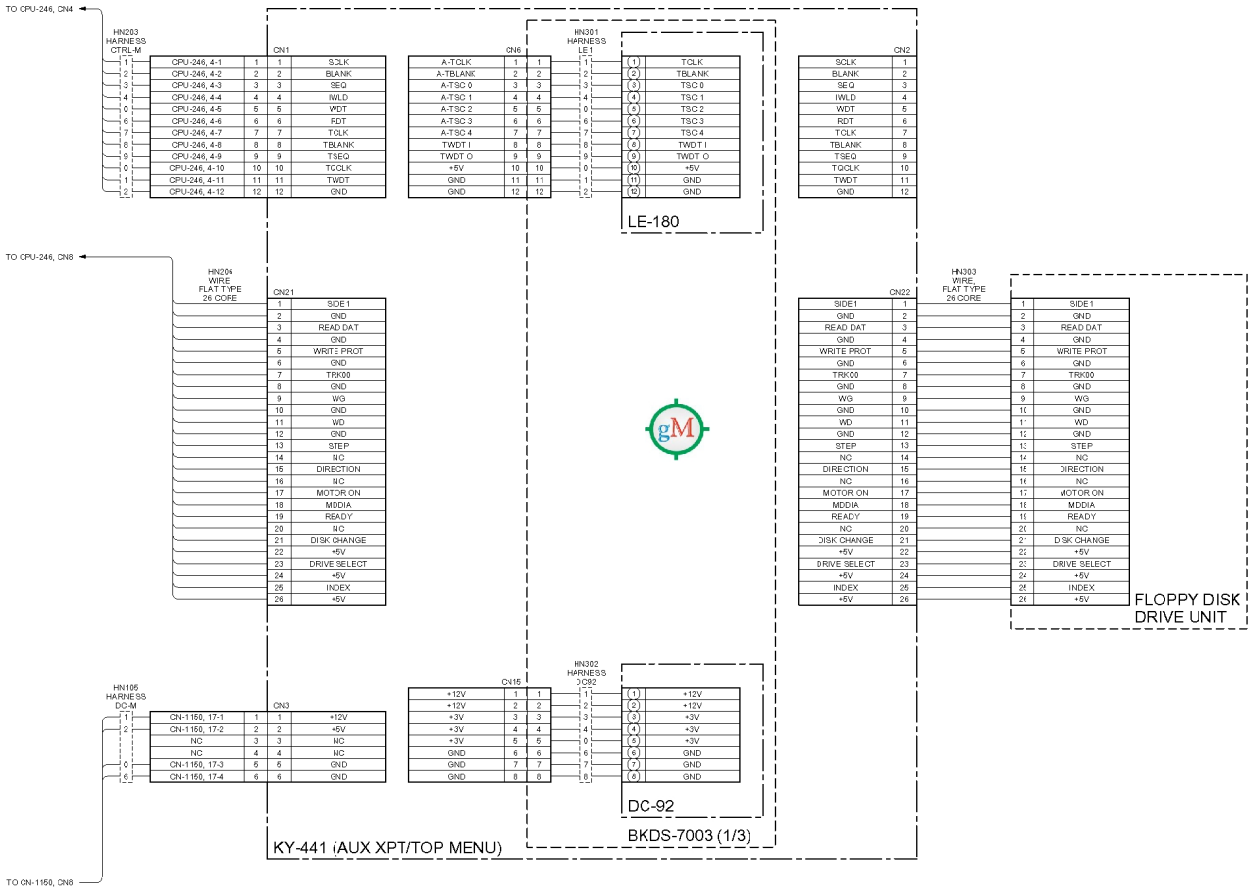
2-14



FRAME WIRING (3/8)

BKDS-7017

BKDS-7017 FRAME (4/8)

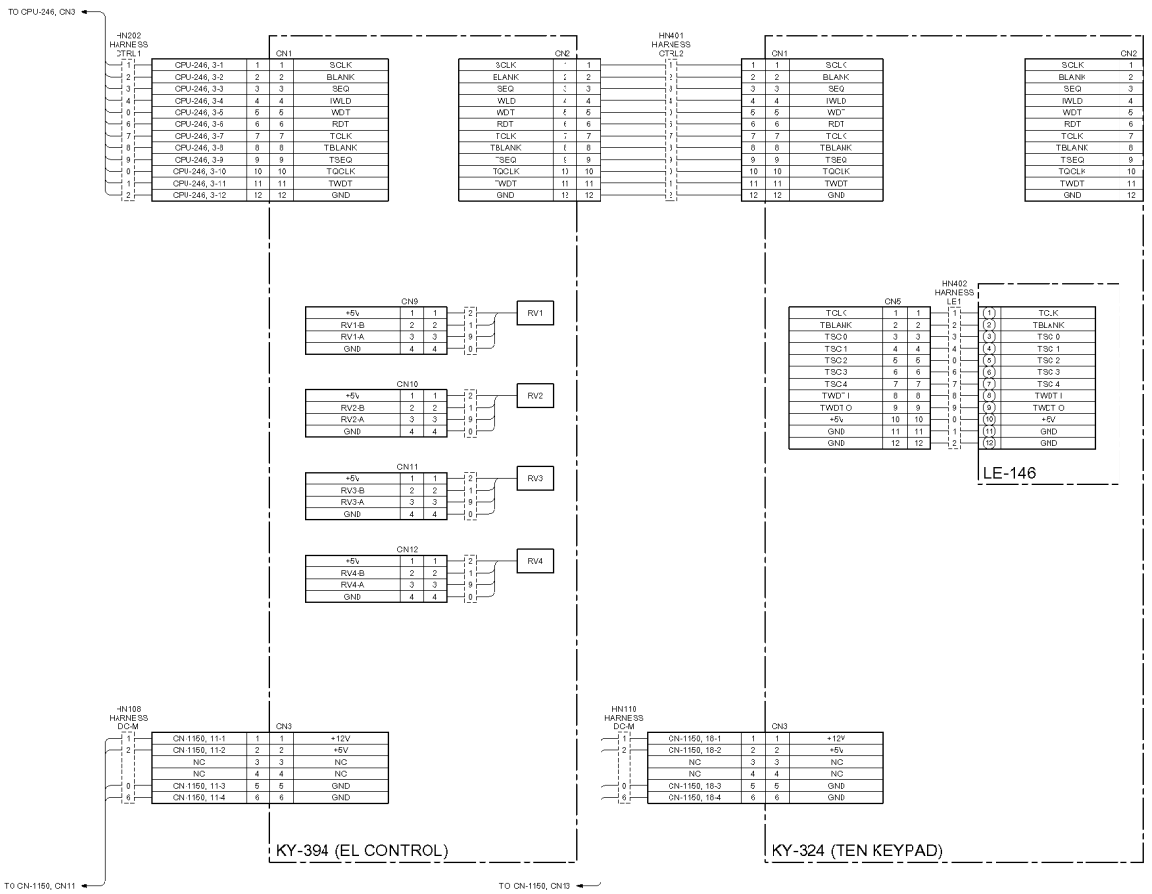


FRAME WIRING (4/8)

BKDS-7017

2-16

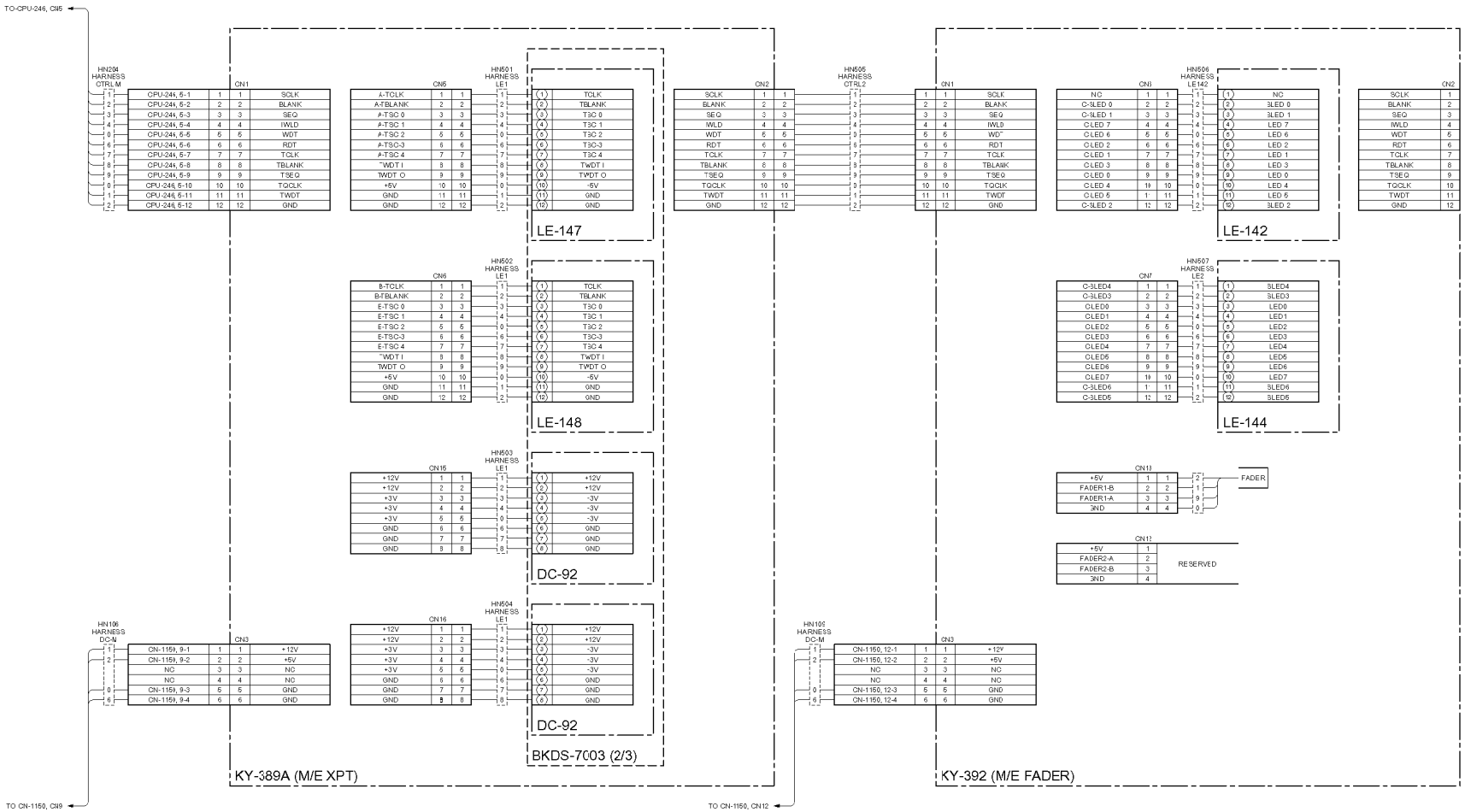
BKDS-7017 FRAME (5/8)



FRAME WIRING (5/8)

BKDS-7017

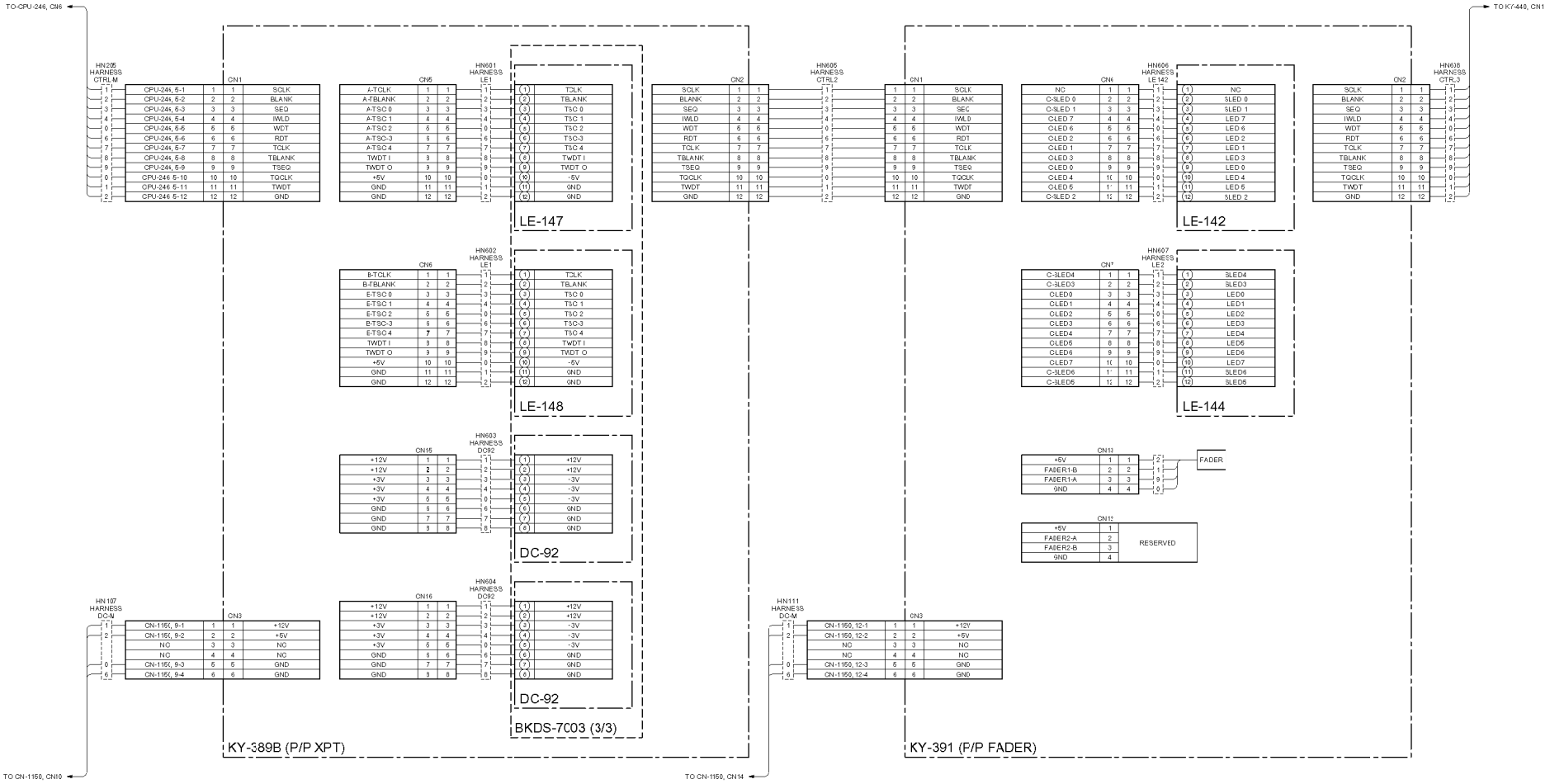
2-17



FRAME WIRING (6/8)

BKDS-7017

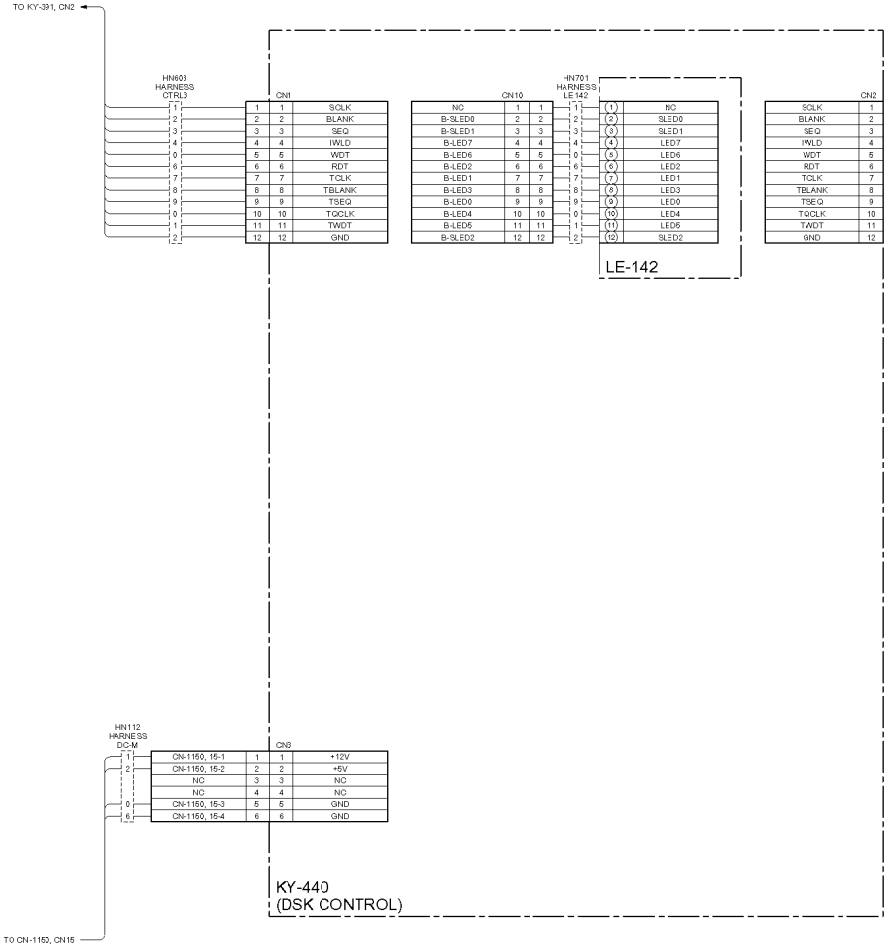
BKDS-7017 FRAME (7/8)


TO CPU-246, CN6
TO KY-440, CN1
HN205 HARNESS CTRL-M
CN1
CPU-246, 5-1 SCLK
CPU-246, 5-2 BLANK
CPU-246, 5-3 SEQ
CPU-246, 5-4 IWLD
CPU-246, 5-5 WDT
CPU-246, 5-6 RDT
CPU-246, 5-7 TCLK
CPU-246, 5-8 TBLANK
CPU-246, 5-9 TSEQ
CPU-246 5-10 TQCLK
CPU-246 5-11 TWDT
CPU-246 5-12 GND
HN601 HARNESS LE1
CN5
A-TCLK A-TBLANK A-TSC 0 A-TSC 1 A-TSC 2 A-TSC-3 A-TSC 4 TWDT I TWDT O +5V GND GND
TCLK TBLANK TSC 0 TSC 1 TSC 2 TSC-3 TSC 4 TWDT I TWDT O -5V GND GND
LE-147
HN602 HARNESS LE1
CN6
B-TCLK B-TBLANK E-TSC 0 E-TSC 1 E-TSC 2 B-TSC-3 E-TSC 4 TWDT I TWDT O +5V GND GND
TCLK TBLANK TSC 0 TSC 1 TSC 2 TSC-3 TSC 4 TWDT I TWDT O -5V GND GND
LE-148
HN603 HARNESS DC92
CN15
+12V +12V +3V +3V +3V GND GND GND
+12V +12V -3V -3V -3V GND GND GND
DC-92
HN604 HARNESS DC92
CN16
+12V +12V +3V +3V +3V GND GND GND
+12V +12V -3V -3V -3V GND GND GND
DC-92
BKDS-7003 (3/3)
HN107 HARNESS DC-N
CN3
CN-1150, 9-1 +12V
CN-1150, 9-2 +5V
NC NC
NC NC
CN-1150, 9-3 GND
CN-1150, 9-4 GND
TO CN-1150, CN10
KY-389B (P/P XPT)
HN605 HARNESS CTRL2
CN2
SCLK BLANK SEQ IWLD WDT RDT TCLK TBLANK TSEQ TQCLK TWDT GND
CN1
SCLK BLANK SEQ IWLD WDT RDT TCLK TBLANK TSEQ TQCLK TWDT GND
HN606 HARNESS LE142
CN4
NC C-SLED 0 C-SLED 1 C-LED 7 C-LED 6 C-LED 2 C-LED 1 C-LED 3 C-LED 0 C-LED 4 C-LED 5 C-SLED 2
NC SLED 0 SLED 1 LED 7 LED 6 LED 2 LED 1 LED 3 LED 0 LED 4 LED 5 SLED 2
LE-142
HN607 HARNESS LE2
CN7
C-3LED4 C-3LED3 C-LED0 C-LED1 C-LED2 C-LED3 C-LED4 C-LED5 C-LED6 C-LED7 C-3LED6 C-3LED5
3LED4 3LED3 LED0 LED1 LED2 LED3 LED4 LED5 LED6 LED7 3LED6 3LED5
LE-144
HN608 HARNESS CTR_3
CN2
SCLK BLANK SEQ IWLD WDT RDT TCLK TBLANK TSEQ TQCLK TWDT GND
CN13
+5V FADER1-B FADER1-A GND
FADER
CN12
+5V FADER2-A FADER2-B GND
RESERVED
HN111 HARNESS DC-M
CN3
CN-1150, 12-1 +12V
CN-1150, 12-2 +5V
NC NC
NC NC
CN-1150, 12-3 GND
CN-1150, 12-4 GND
TO CN-1150, CN14
KY-391 (F/P FADER)

FRAME WIRING (7/8)

BKDS-7017

2-19



FRAME WIRING (8/8)
BKDS-7017

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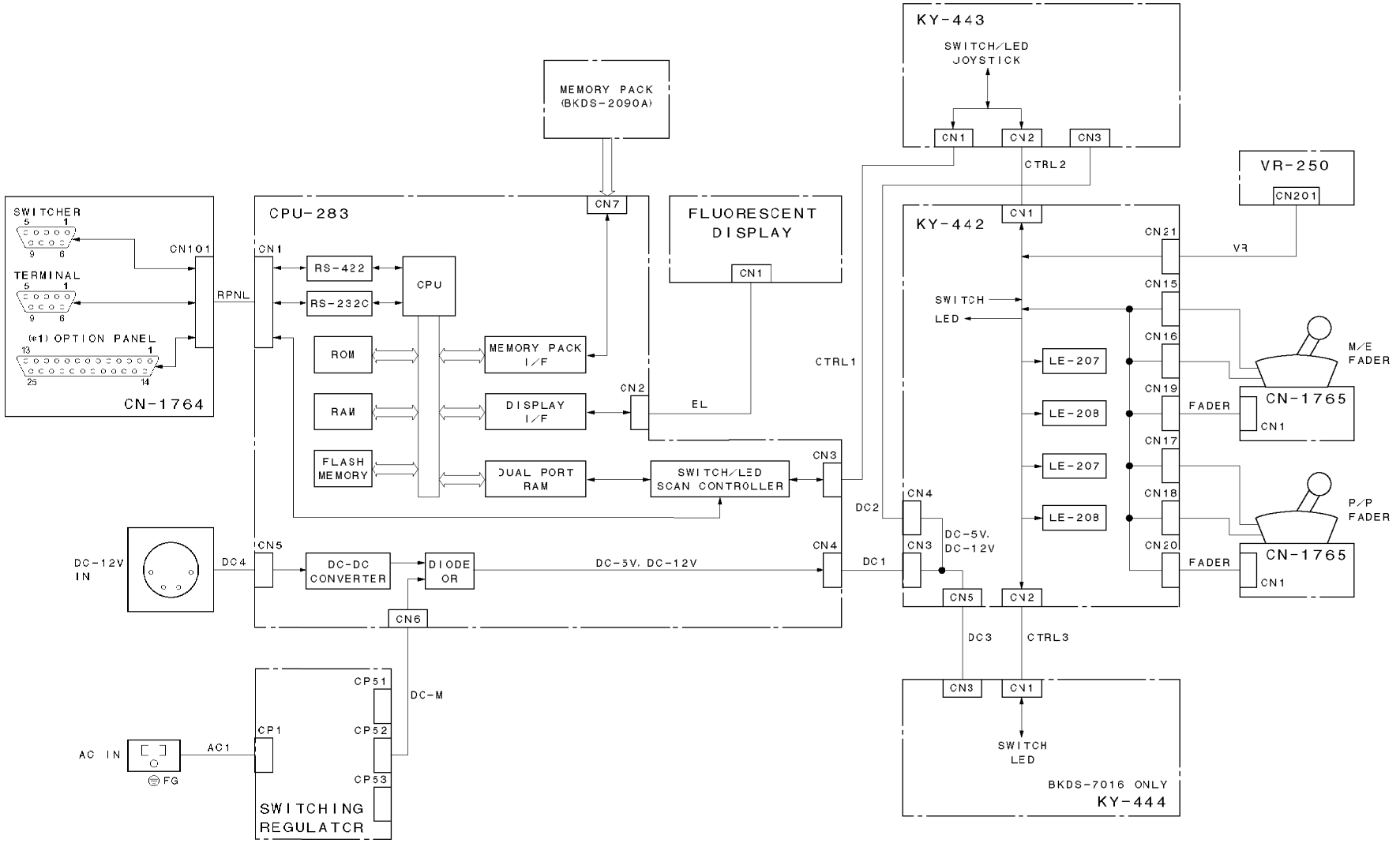
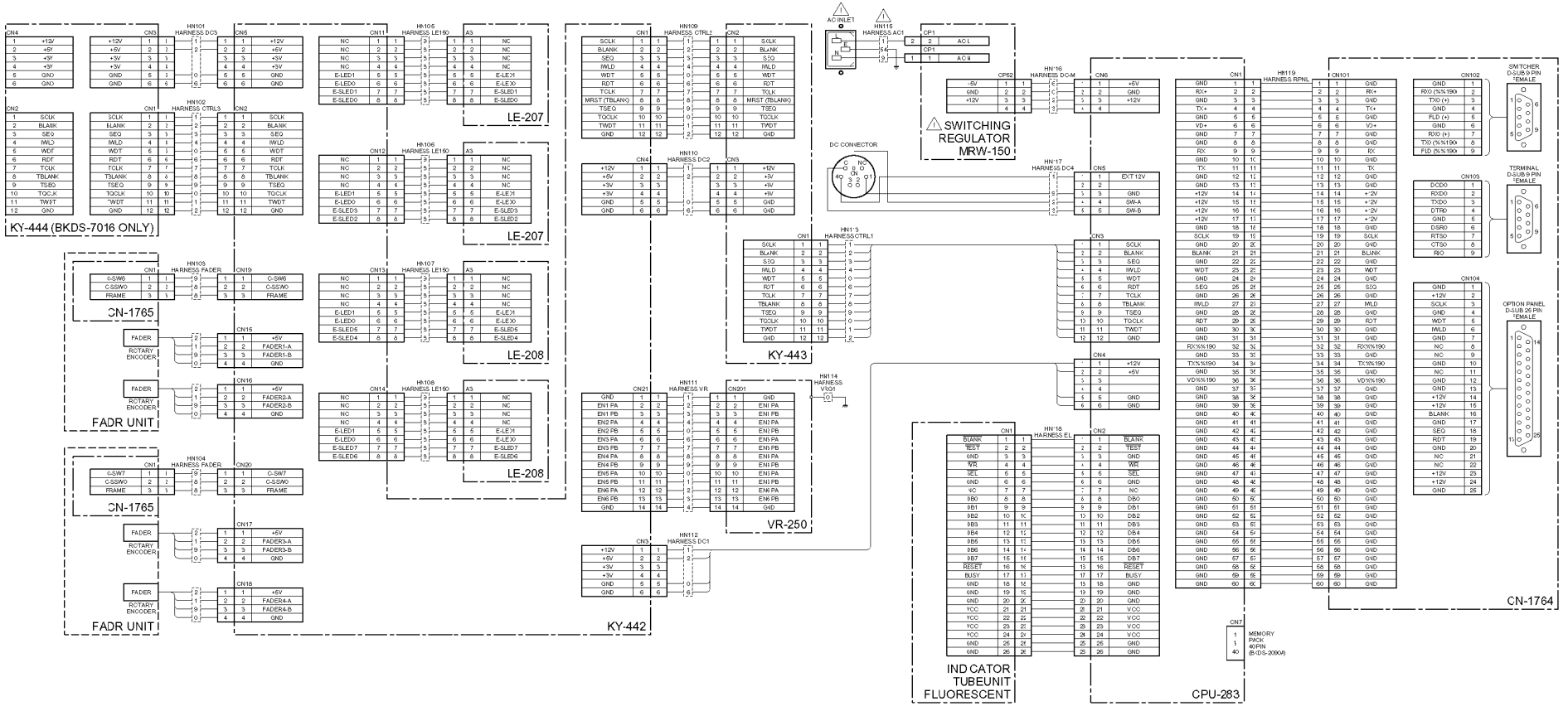
2-5. BKDS-7016/7016L
BKDS-7016/7016L OVERALL BLOCK



(※1) : For future expansion

OVERALL BLOCK
BKDS-7016/7016L

BKDS-7016/7016L FRAME WIRING



FRAME WIRING
BKDS-7016/7016L

Section 3
Block Diagrams

DVS-7000A/7200A Digital Video Switcher

No.	Board name	Circuit function	Model name	Page
1	ADC-21	Blank Input Adaptor Board	BKDS-7110	(*1)
2	ADC-22	Chromakey Analog Component Input Board	BKDS-7133	(*1)
3	ADI-3	Analog Composite Input Board	BKDS-7111	(*1)
4	BD-26	Key Border Board	BKDS-7270	3-19
5	BD-35	Key Border Board	BKDS-7271	3-20
6	CA-35A	Application Board	DVS-7000A	3-2
7	CA-35B	Application Board	DVS-7200A	3-2
8	CC-81	Color Correction Board	BKDS-7420	3-4
9	CPU-264A	System Control Board	DVS-7000A	3-5
10	CPU-264B	System Control Board	DVS-7200A	3-5
11	CRK-10	Chromakey Board	BKDS-2031	(*1)
12	CRK-11	Chromakey Upgrade Board	BKDS-2032	(*1)
13	DA-94	Analog Composite Output Board	BKDS-7161	(*1)
14	DI-34	Serial Digital Input Board	BKDS-7113	3-7
15	DI-36	12 Input Serial Digital Board	BKDS-7103	3-8
16	ENC-34	Encoder Board	BKDS-7133	3-9
17	IF-758	Interface Board	DVS-7000A/7200A	3-2
18	MEM-94	Memory Board	DVS-7000A/7200A	3-2
19	MIX-35	Video Mixer Board	DVS-7000A/7200A, BKDS-7250/7340 (DVS-7200A only)	3-18
20	MY-66	Frame Memory Board	BKDS-2041	(*1)
21	OUT-9	Output Processor Board	DVS-7000A/7200A	(*1)
22	RE-109	Power Supply AC-DC Board	DVS-7000A/7200A, BKDS-7690	3-23
23	RE-110	Power Supply DC-DC Board	DVS-7000A/7200A, BKDS-7690	(*1)
24	SD-48	Serial Digital Output Board	BKDS-7163	3-25
25	UP-10	ME PVW Board	BKDS-7280	3-18
26	WKG-12	Enhanced Wipe Generator Board	BKDS-2070	3-19
27	XPT-16	Cross Point Board	DVS-7000A/7200A	3-26
28	YC-59	Frame Memory Adaptor Board	BKDS-7445	(*1)

(*1) : **このサプリメントに記載されていないブロック図については，メンテナンスマニュアルパート2 Volume 1 Revised 2を参照してください。**
For the block diagram is not described in this supplement, refer to the volume 1 revised 2 of the maintenance manual part 2.

DVS-7150 Digital Video Switcher

No.	Board name	Circuit function	Model name	Page
1	ADC-21	Blank Input Adaptor Board	BKDS-7110	(*1)
2	ADC-22	Chromakey Analog Component Input Board	BKDS-7134	(*1)
3	ADI-3	Analog Composite Input Board	BKDS-7111	(*1)
4	BD-26	Key Border Board	DVS-7150	3-22
5	CA-35	Application Board	DVS-7150	3-2
6	CPU-264	System Control Board	DVS-7150	3-5
7	CRK-10	Chromakey Board	BKDS-2031	(*1)
8	DA-94	Analog Composite Output Board	BKDS-7161	(*1)
9	DI-34	Serial Digital Input Board	BKDS-7113	3-7
10	ENC-34(A)	CRK Analog Component Input Board	DVS-7150	3-9
11	IF-729	Interface Board	DVS-7150	3-2
12	MEM-94	Memory Board	DVS-7150	3-2
13	MIX-35(A)	P/P Mixer Board	DVS-7150	3-21
14	MIX-35(B)	M/E Mixer Board	DVS-7150	3-21
15	OUT-9	Output Processor Board	DVS-7150	(*1)
16	RE-114	Power Supply AC-DC Board	DVS-7150	3-24
17	RE-115A	Power Supply DC-DC Board	DVS-7150	(*1)
18	SD-48	Serial Digital Output Board	BKDS-7163	3-25
19	UP-10	ME PVW Board	BKDS-7280	3-21
20	WKG-12	Enhanced Wipe Generator Board	DVS-7150	3-22
21	XPT-15	Cross Point Board	DVS-7150	3-27

(*1) : **このサプリメントに記載されていないブロック図については，メンテナンスマニュアルパート2 Volume 1 Revised 2を参照してください。**
For the block diagram is not described in this supplement, refer to the volume 1 revised 2 of the maintenance manual part 2.

BKDS-7017 Switcher Control Panel

No.	Board name	Circuit function	Model name	Page
1	CPU-246	System Control Board	BKDS-7017	(*1)
2	DC-92	Display Board	BKDS-7003	(*1)
3	IF-523	Control Port Expansion Board	BKDS-7001	(*1)
4	IF-629	Interface Board	BKDS-7015	(*1)
5	KY-324	Switch Board	BKDS-7017	(*1)
6	KY-328	Switch Board	BKDS-7030	(*1)
7	KY-329	Switch Board	BKDS-7031	(*1)
8	KY-389A	Switch Board	BKDS-7017	(*1)
9	KY-389B	Switch Board	BKDS-7017	(*1)
10	KY-392	Switch Board	BKDS-7017	(*1)
11	KY-394	Switch Board	BKDS-7017	(*1)
12	KY-395C	Switch Board	BKDS-7033	(*1)
13	KY-440	Switch Board	BKDS-7017	3-10
14	KY-441	Switch Board	BKDS-7017	3-11
15	LE-180	LED Board	BKDS-7003	(*1)
16	RE-146	Power Supply Board	BKDS-7017/7091	(*1)

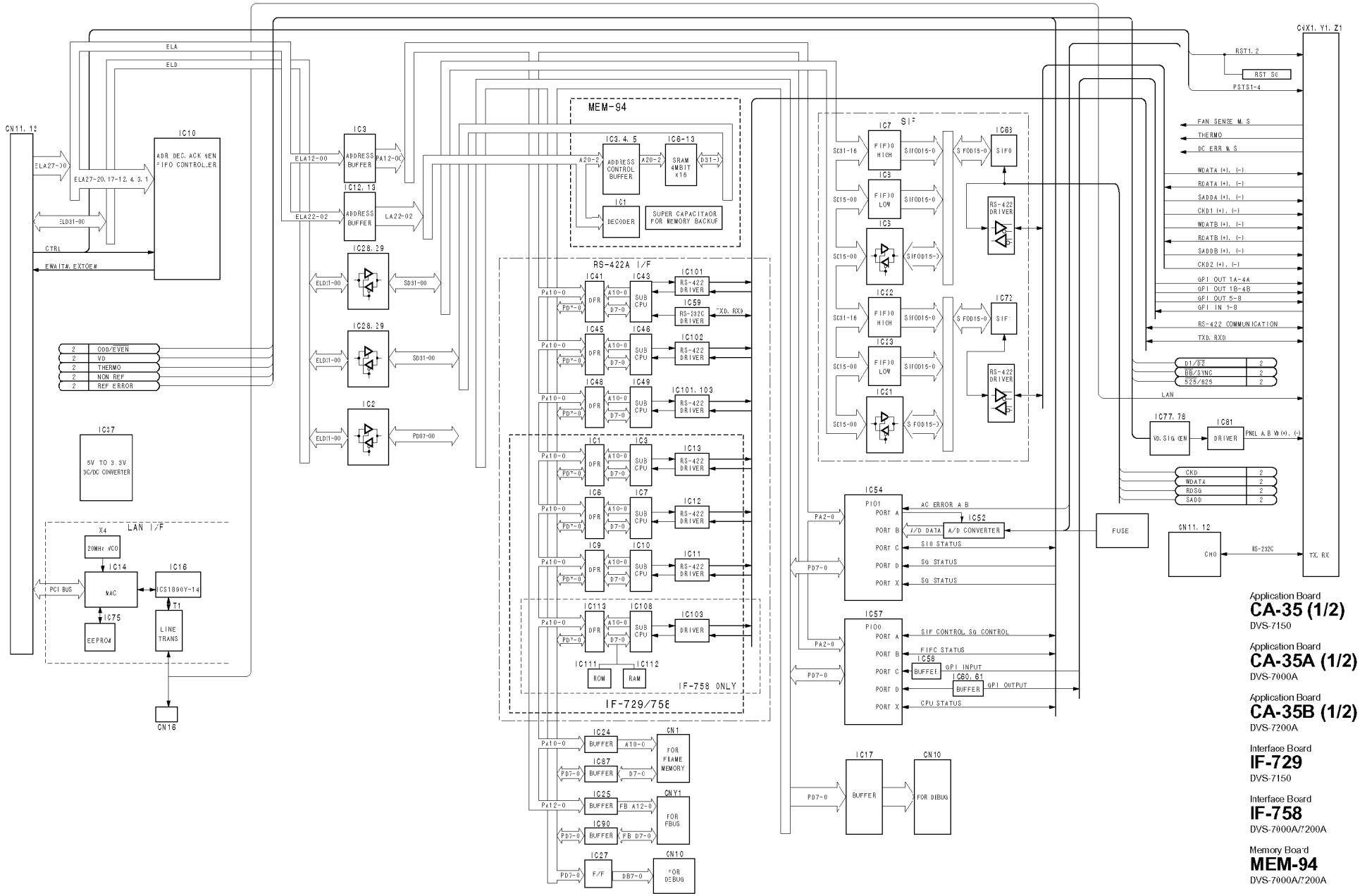
(*1) : **このサプリメントに記載されていないブロック図については，メンテナンスマニュアルパート2 Volume 1 Revised 2を参照してください。**
For the block diagram is not described in this supplement, refer to the volume 1 revised 2 of the maintenance manual part 2.

BKDS-7016/7016L Switcher Control Panel

No.	Board name	Circuit function	Model name	Page
1	CPU-283	System Control Board	BKDS-7016/7016L	3-5
2	KY-442	Switch Board	BKDS-7016/7016L	3-12
3	KY-443	Switch Board	BKDS-7016/7016L	3-16
4	KY-444	Switch Board	BKDS-7016	3-17
5	LE-207	LED Board	BKDS-7016/7016L	3-15
6	LE-208	LED Board	BKDS-7016/7016L	3-15
7	VR-250	Rotary Encoder Board	BKDS-7016/7016L	3-15

CA-35/35A/35B (1/2), IF-729/758 and MEM-94 Application Blocks

CA-35/35A/35B, IF-729/758 and MEM-94 BOARDS



Application Board
CA-35 (1/2)
DVS-7150

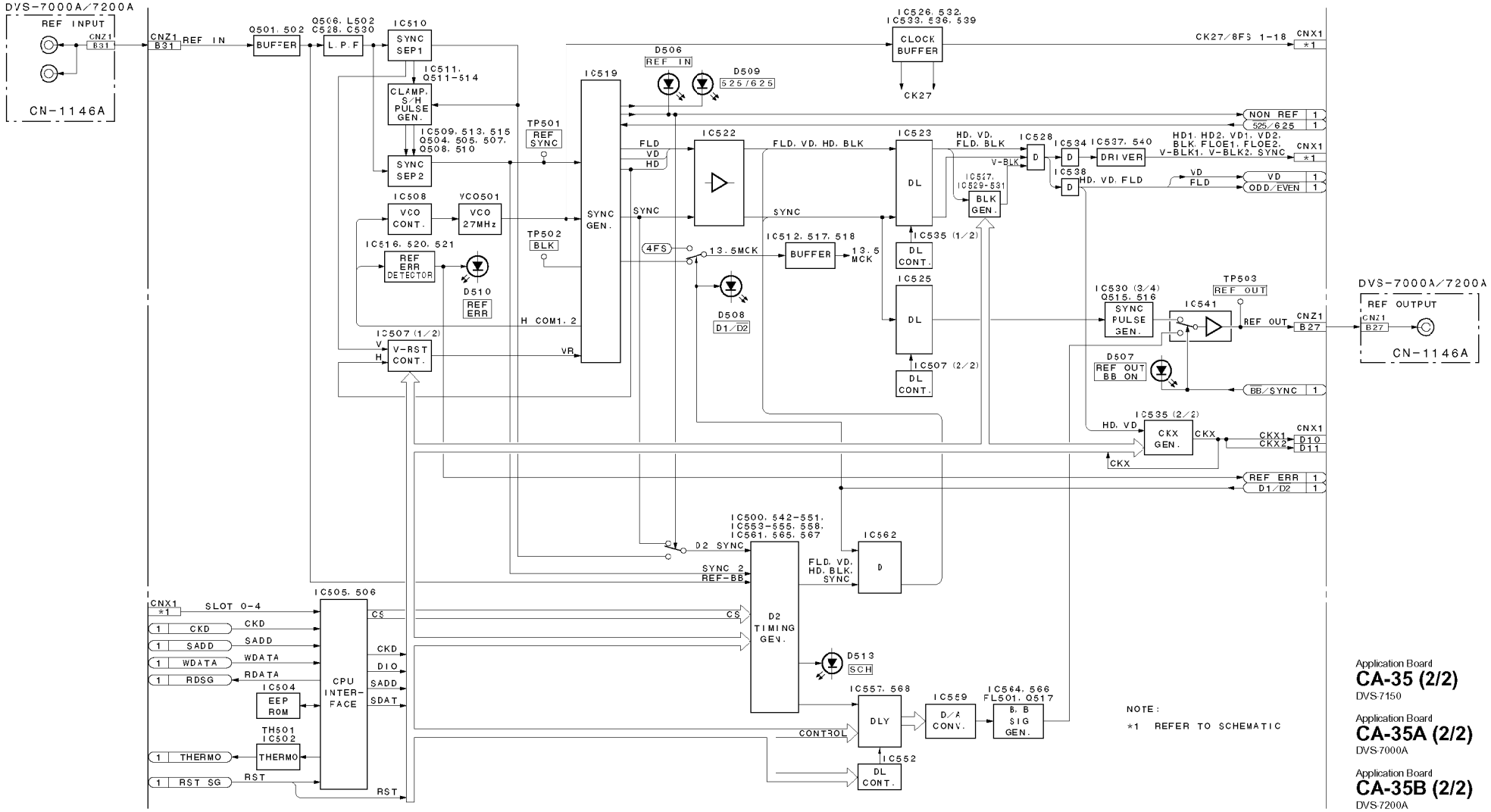
Application Board
CA-35A (1/2)
DVS-7000A

Application Board
CA-35B (1/2)
DVS-7200A

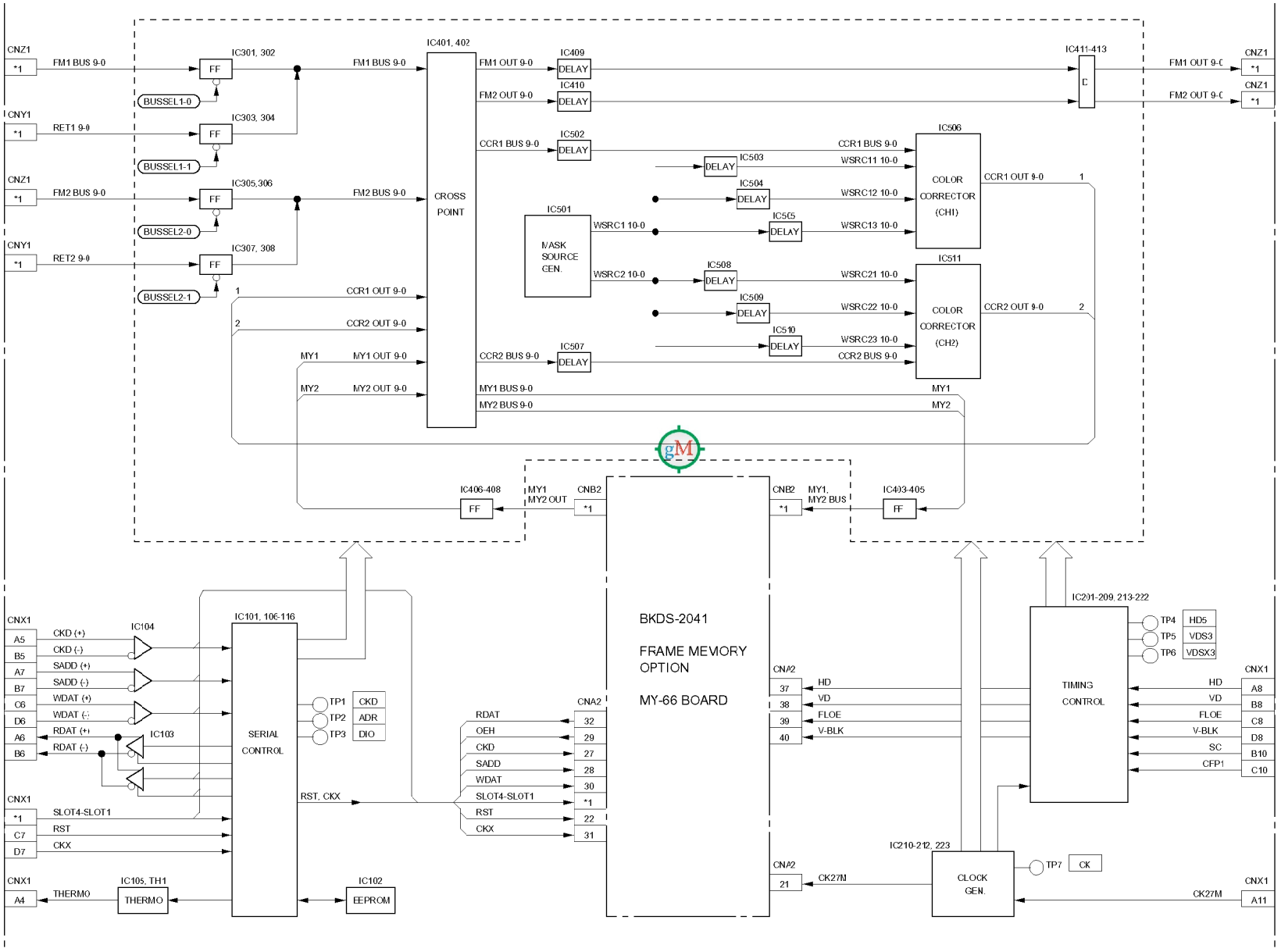
Interface Board
IF-729
DVS-7150

Interface Board
IF-758
DVS-7000A/7200A

Memory Board
MEM-94
DVS-7000A/7200A


DVS-7000A/7200A
REF INPUT
CNZ1
B31
CN-1146A
CNZ1 B31 REF IN
Q501, 502
BUFFER
Q506, L502
C528, C530
L.P.F
IC510
SYNC SEP1
IC511, Q511-514
CLAMP, S/H PULSE GEN.
IC509, 513, 515
Q504, 505, 507, Q508, 510
SYNC SEP2
IC508
VCO CONT.
VCO501
VCO 27MHz
IC516, 520, 521
REF ERR DETECTOR
D510
REF ERR
IC507 (1/2)
V-RST CONT.
V
H
H COM1, 2
VR
TP501
REF SYNC
TP502
BLK
IC519
SYNC GEN.
D506
REF IN
D509
525/625
IC526, 532,
IC533, 536, 539
CLOCK BUFFER
CK27
CK27/8FS 1-18
CNX1
*1
NON REF
525/625
FLD
VD
HD
SYNC
4FS
13.5MCK
D508
D1/D2
IC522
FLD, VD, HD, BLK
IC512, 517, 518
BUFFER
13.5 MCK
IC523
DL
DL CONT.
IC535 (1/2)
IC525
DL
DL CONT.
IC507 (2/2)
HD, VD, FLD, BLK
IC528
D
V-BLK
IC534
D
IC538
D
HD, VD, FLD
IC537, 540
DRIVER
HD1, HD2, VD1, VD2, BLK, FLOE1, FLOE2, V-BLK1, V-BLK2, SYNC
VD
FLD
VD
ODD/EVEN
IC527, IC529-531
BLK GEN.
IC530 (3/4)
Q515, 516
SYNC PULSE GEN.
IC541
TP503
REF OUT
REF OUT
CNZ1
B27
DVS-7000A/7200A
REF OUTPUT
CNZ1
B27
CN-1146A
D507
REF OUT BB ON
BB/SYNC
IC535 (2/2)
HD, VD
CKX GEN.
CKX
CKX1
CKX2
D10
D11
REF ERR
D1/D2
IC500, 542-551, IC553-555, 558, IC561, 565, 567
D2 SYNC
SYNC 2
REF-BB
IC562
D
FLD, VD, HD, BLK, SYNC
D2 TIMING GEN.
CS
D513
SCH
IC505, 506
CPU INTER-FACE
CKD
DIO
SADD
SDAT
RST
SLOT 0-4
CKD
SADD
WDATA
RDATA
RDSG
IC504
EEP ROM
TH501
IC502
THERMO
THERMO
RST SG
RST
IC557, 568
DLY
CONTROL
IC559
D/A CONV.
IC564, 566
FL501, Q517
B. B SIG GEN.
IC552
DL CONT.
NOTE:
*1 REFER TO SCHEMATIC
Application Board
CA-35 (2/2)
DVS-7150
Application Board
CA-35A (2/2)
DVS-7000A
Application Board
CA-35B (2/2)
DVS-7200A

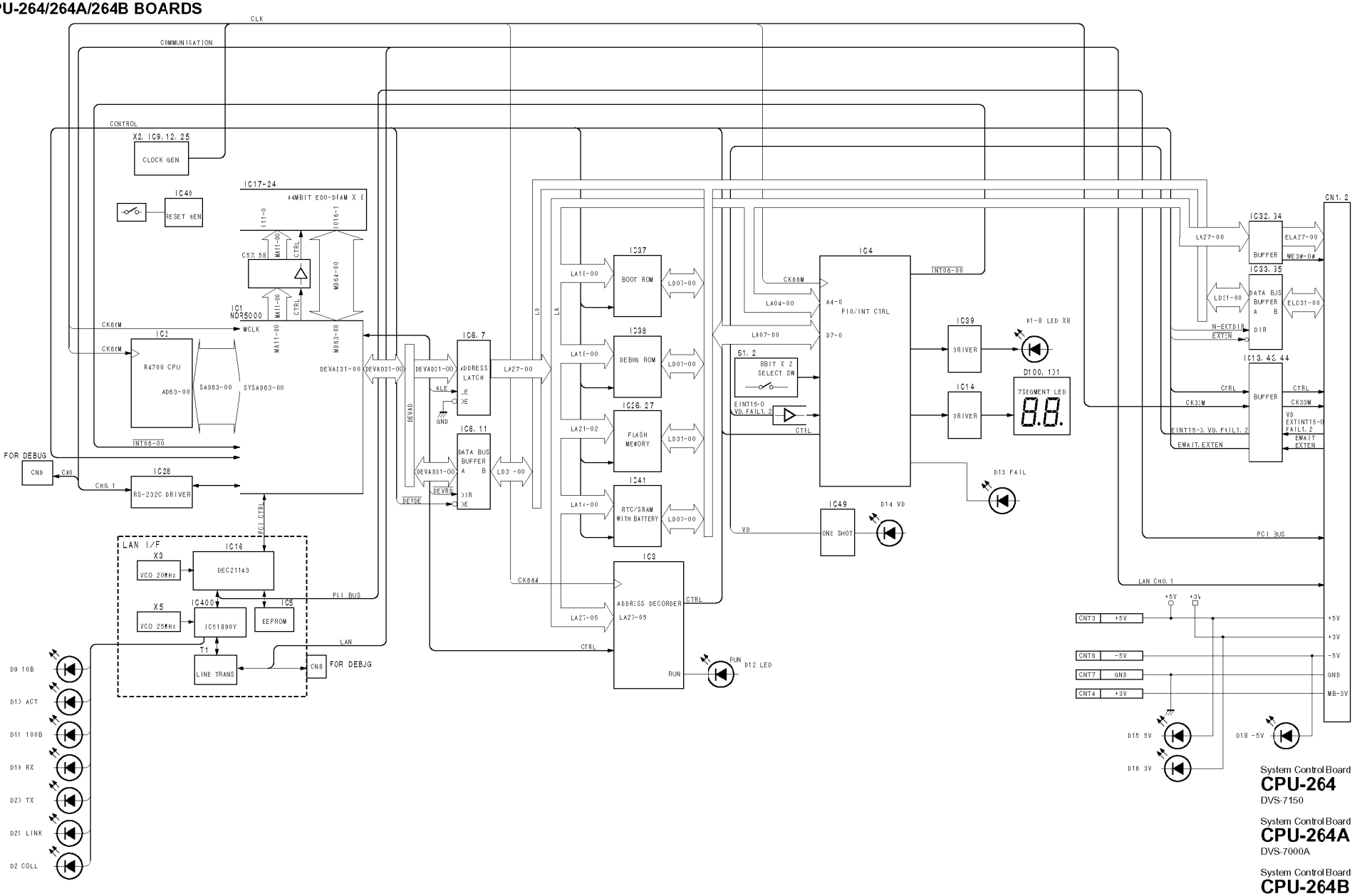
CC-81 BOARD



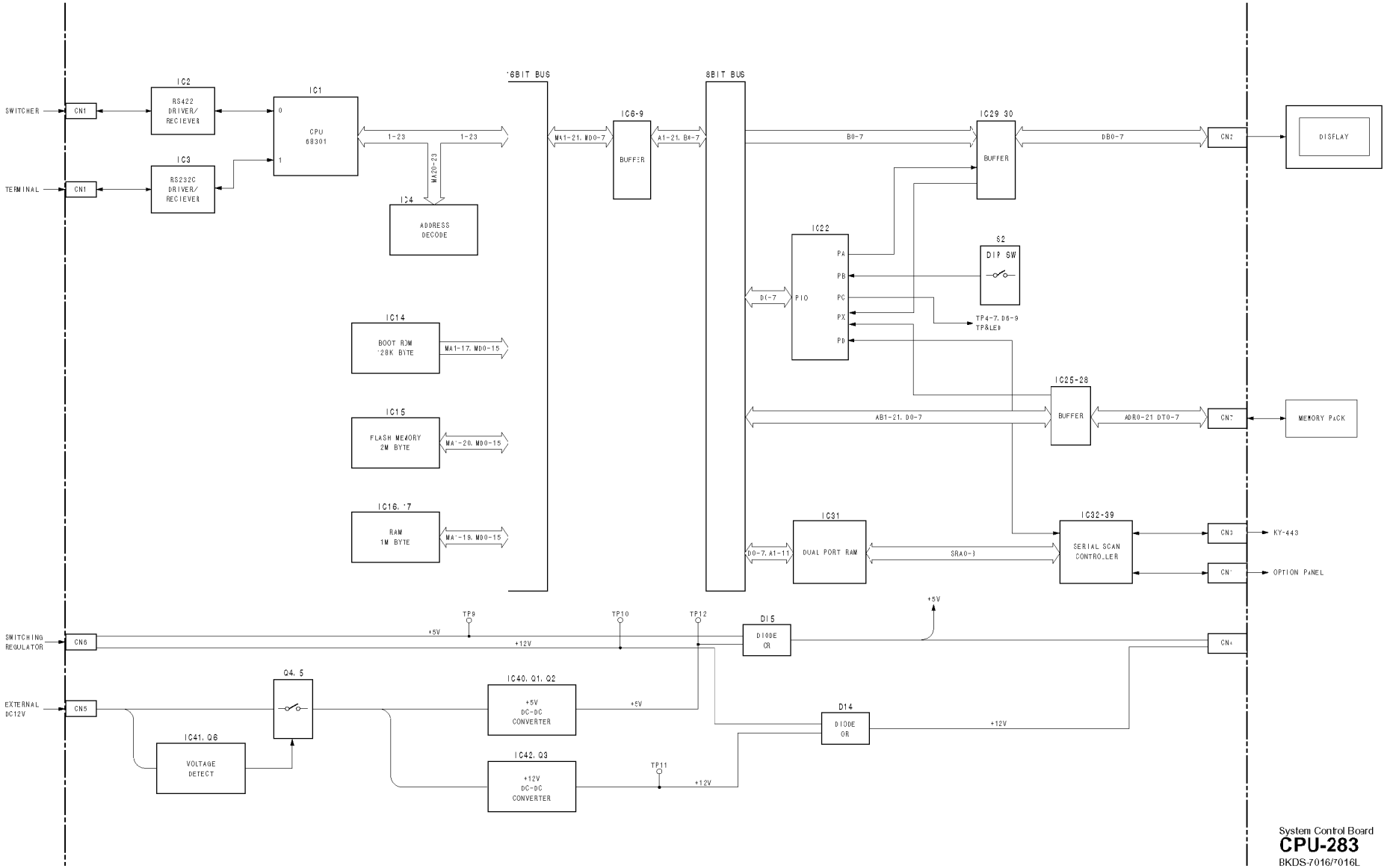
*1 REFER TO SCHEMATICS

Color Correction Board
CC-81
BKDS-742C
FOR DVS-7000A/7200A

CPU-264/264A/264B BOARDS

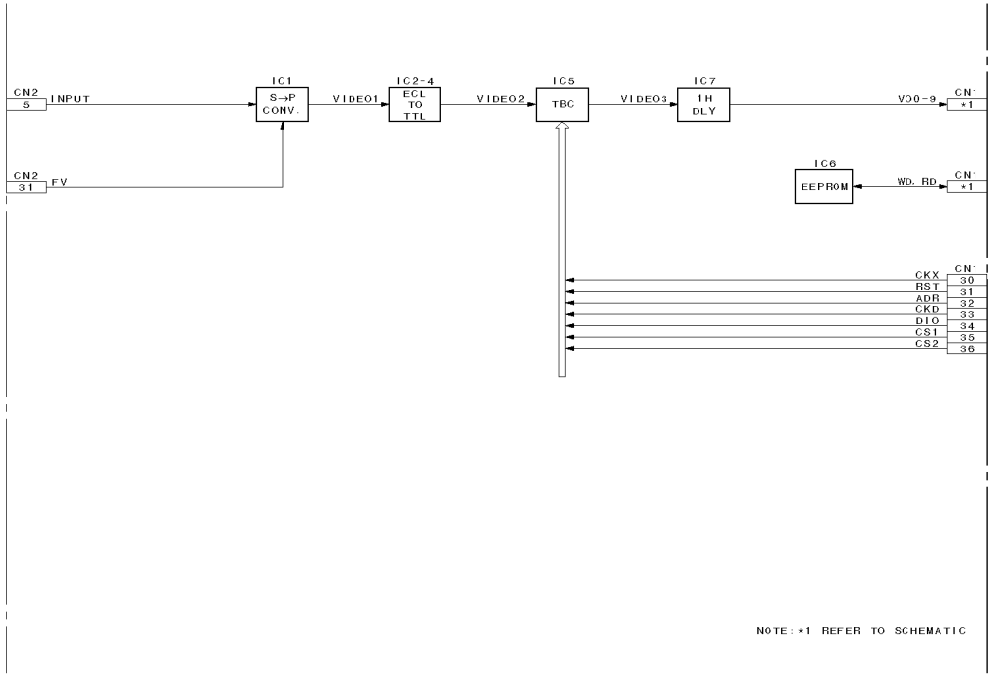


CPU-283 BOARD



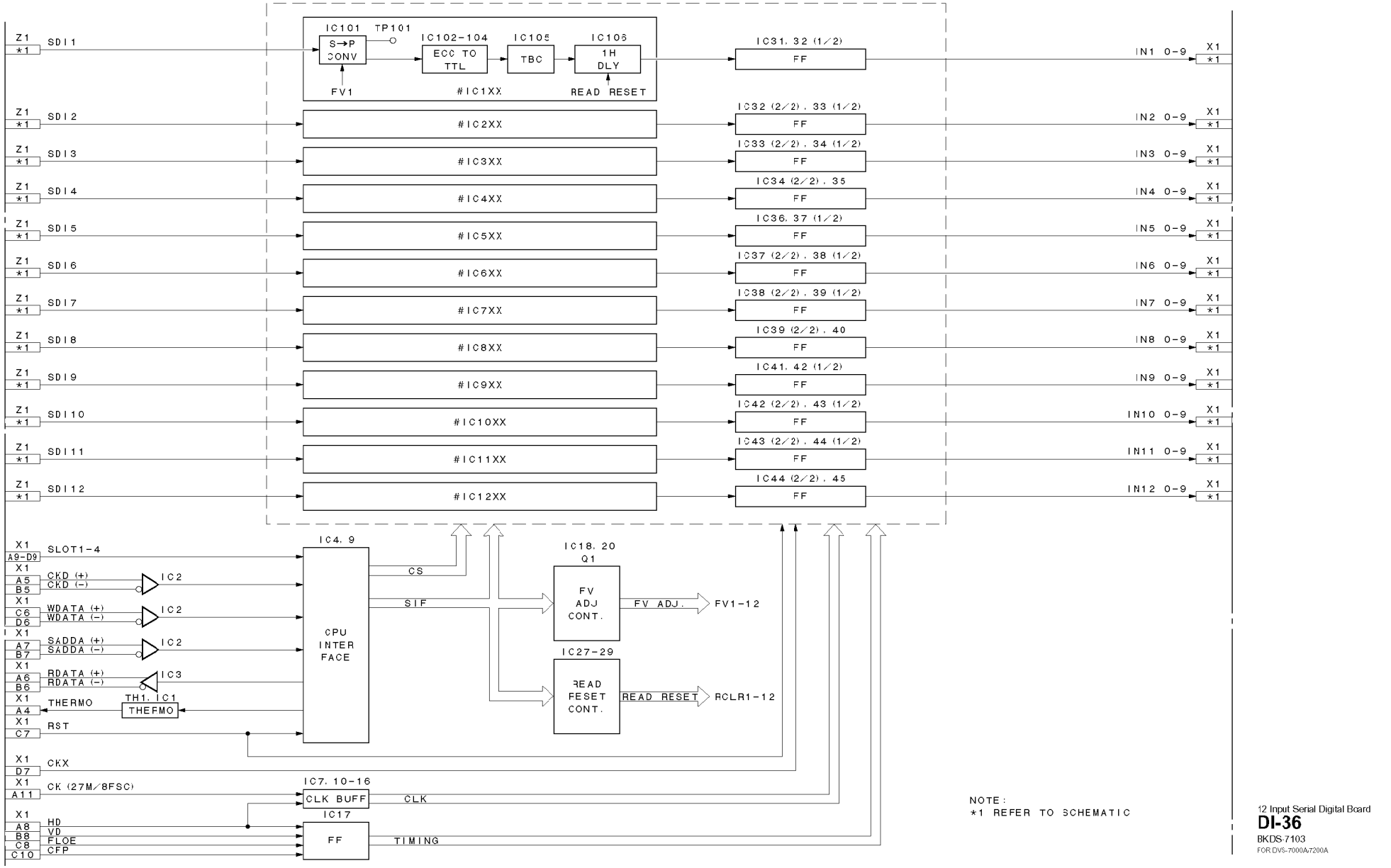
System Control Board
CPU-283
BKDS-7016/7016L

DI-34 BOARD



Serial Digital Input Board
DI-34
BKDS-7113
FOR DVS-7000A/7150/7200A

DI-36 BOARD

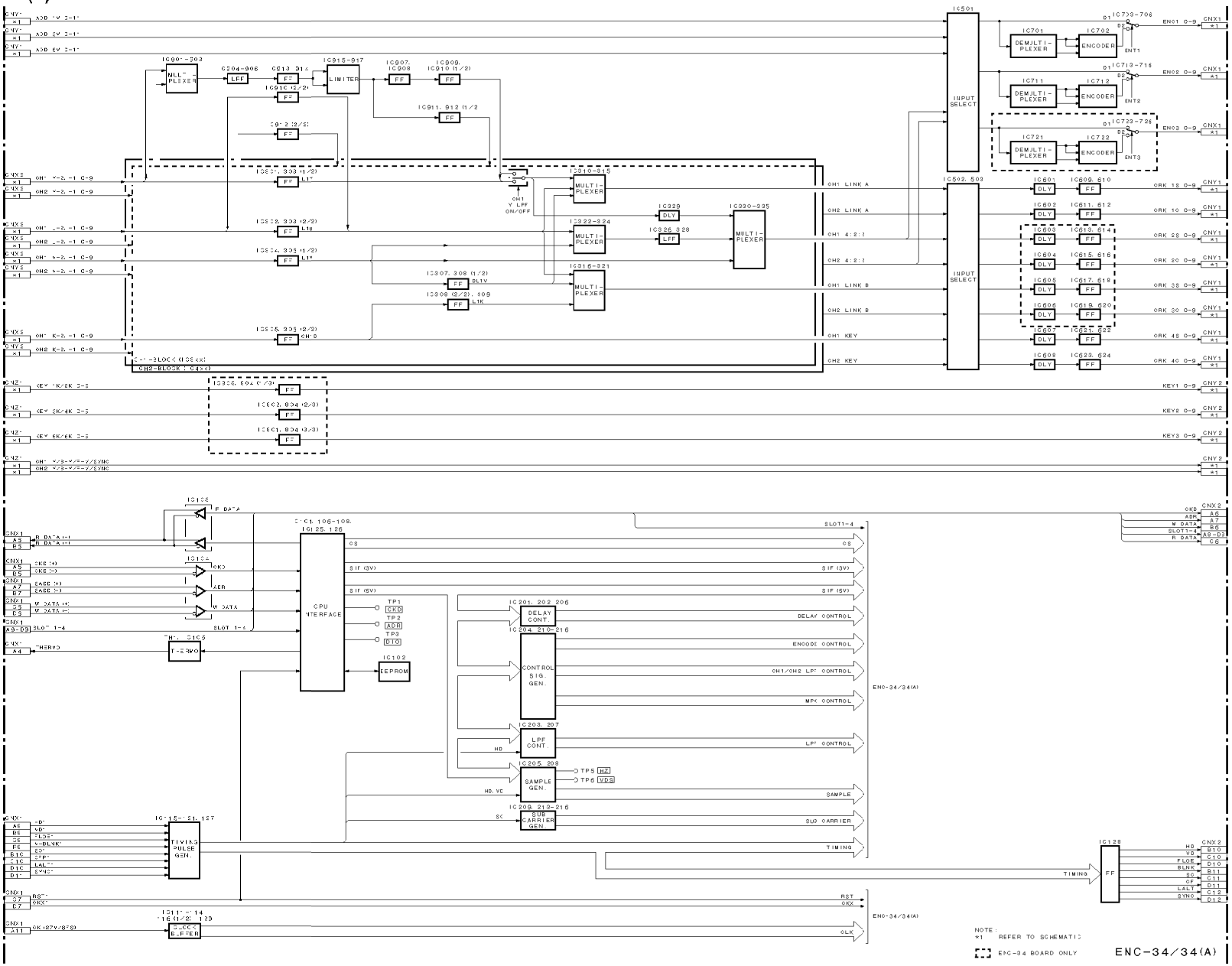


NOTE:
*1 REFER TO SCHEMATIC

12 Input Serial Digital Board
DI-36
BKDS-7103
FOR DVS-7000A/7200A

http://getMANUAL.com
ENC-34/34 (A) Encoder Board

ENC-34/34 (A) BOARDS

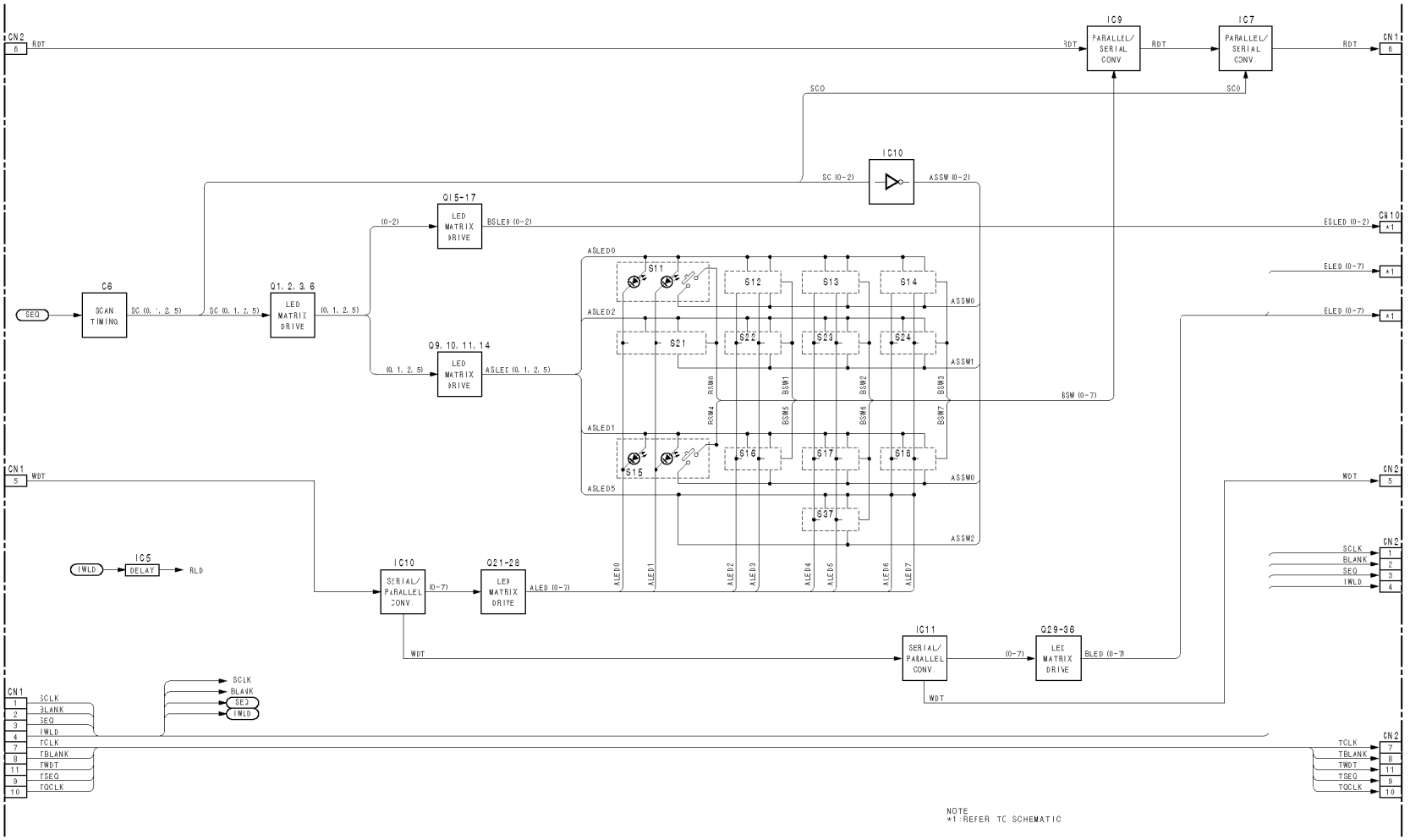


Encoder Board
ENC-34
BKDS-7133
FOR DVS-7000/7200/7000A/7200A

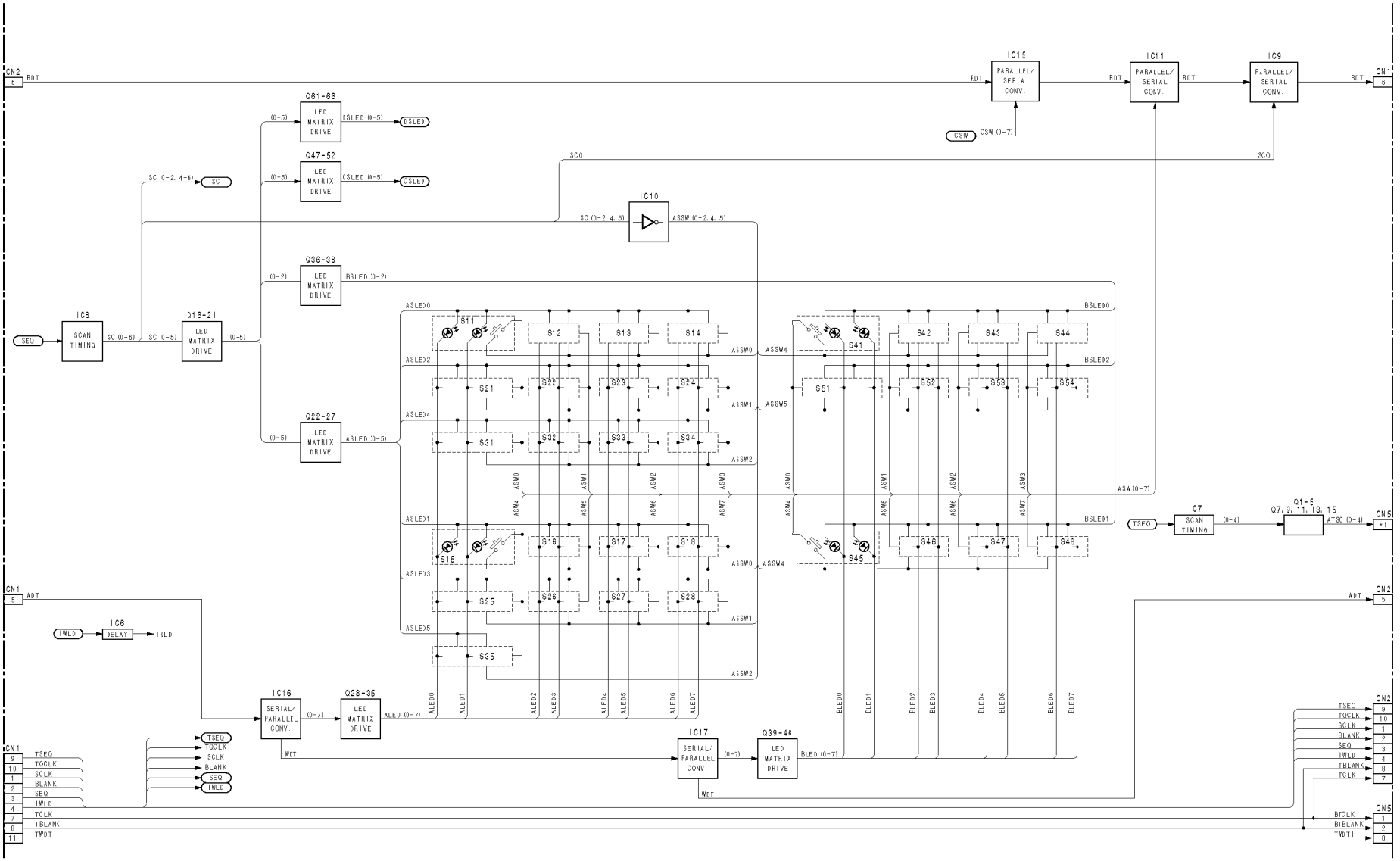
CRK Analog Component Input Board
ENC-34 (A)
DVS-7150

3-9

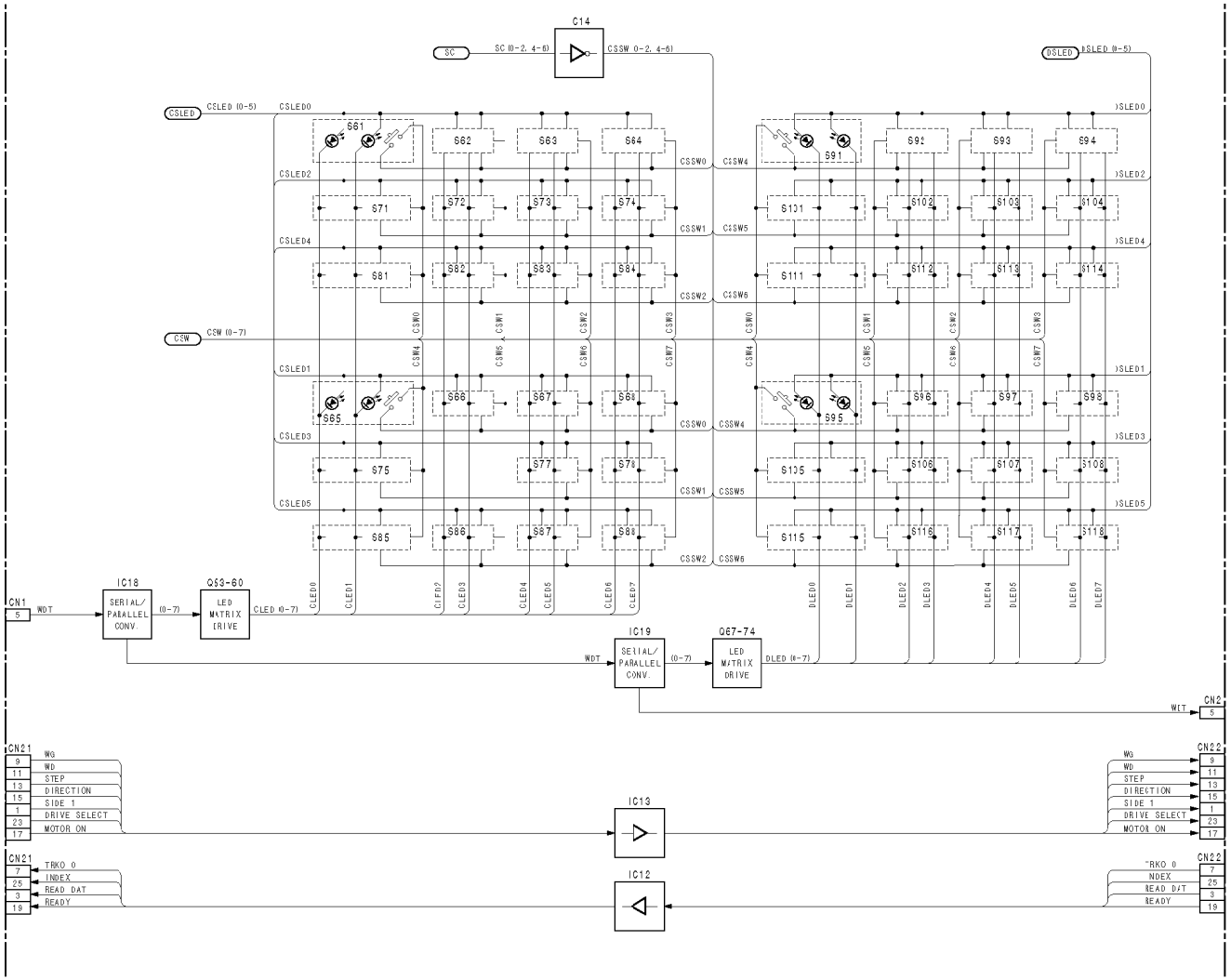
KY-440 BOARD


CN2
6
RDT
IC9
PARALLEL/
SERIAL
CONV
IC7
PARALLEL/
SERIAL
CONV.
CN1
6
SCO
IC10
SC (0-2)
ASSW (0-2)
Q15-17
LED
MATRIX
DRIVE
BSLED (0-2)
CN10
A1
ESLED (0-2)
ELED (0-7)
ELED (0-7)
C6
SCAN
TIMING
SEQ
SC (0, 1, 2, 5)
Q1, 2, 3, 6
LED
MATRIX
DRIVE
Q9, 10, 11, 14
LED
MATRIX
DRIVE
ASLED (0, 1, 2, 5)
ASLED0
ASLED2
ASLED1
ASLED5
S11
S12
S13
S14
S21
S22
S23
S24
S15
S16
S17
S18
S37
ASSW0
ASSW1
ASSW2
BSW (0-7)
CN1
5
WDT
CN2
5
WDT
IC5
DELAY
IWLD
RLD
IC10
SERIAL/
PARALLEL
CONV.
Q21-28
LED
MATRIX
DRIVE
ALED (0-7)
CN2
1
2
3
4
SCLK
BLANK
SEQ
IWLD
IC11
SERIAL/
PARALLEL
CONV.
Q29-36
LED
MATRIX
DRIVE
BLED (0-7)
CN1
1
2
3
4
7
8
11
9
10
SCLK
BLANK
SEQ
IWLD
TCLK
TBLANK
TWDT
TSEQ
TQCLK
CN2
7
8
11
9
10
TCLK
TBLANK
TWDT
TSEQ
TQCLK
NOTE
*1 : REFER TO SCHEMATIC
Switch Board
KY-440
BKDS-7017

KY-441 BOARD

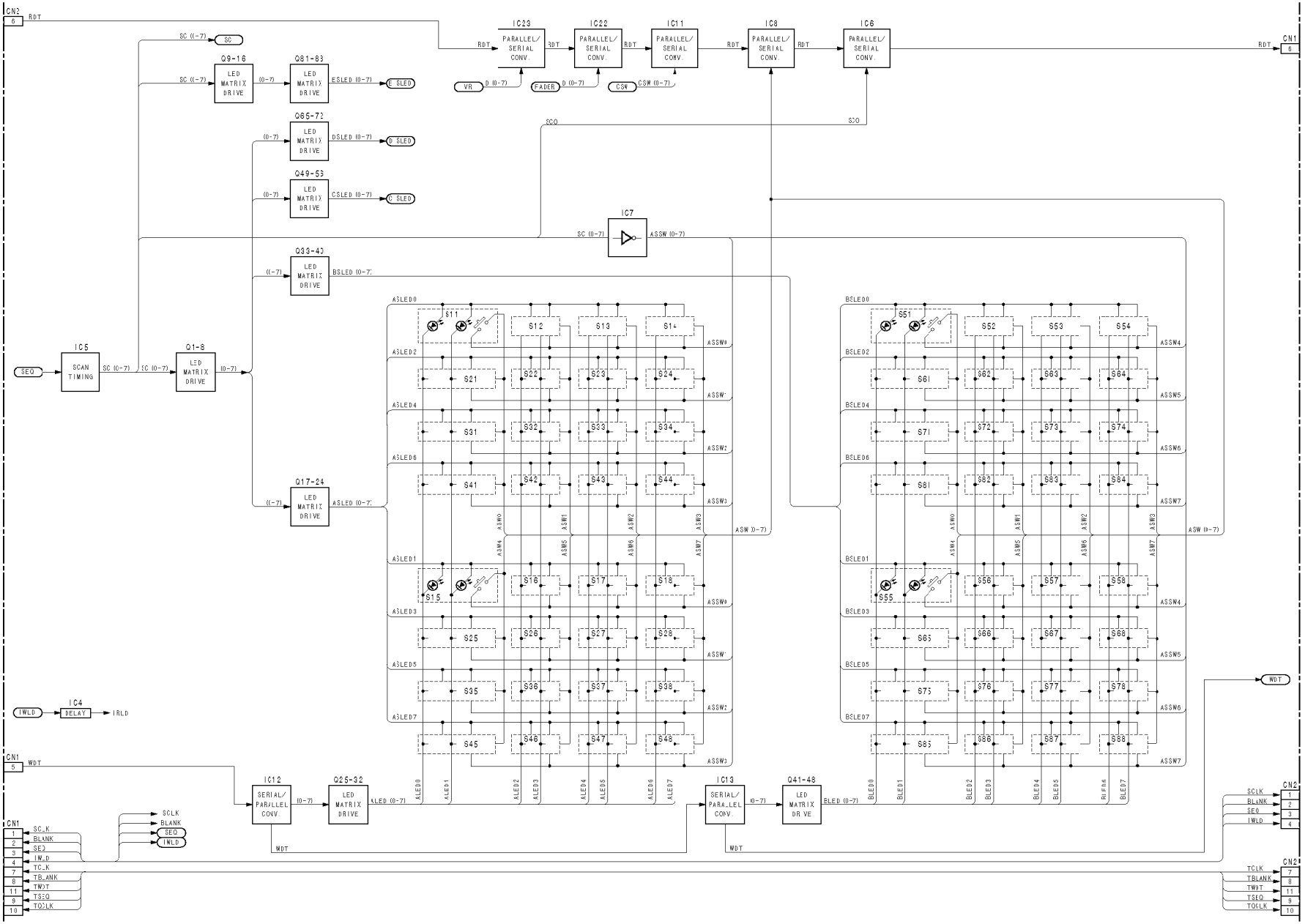


Switch Board
KY-441 (1/2)
BKDS-7017



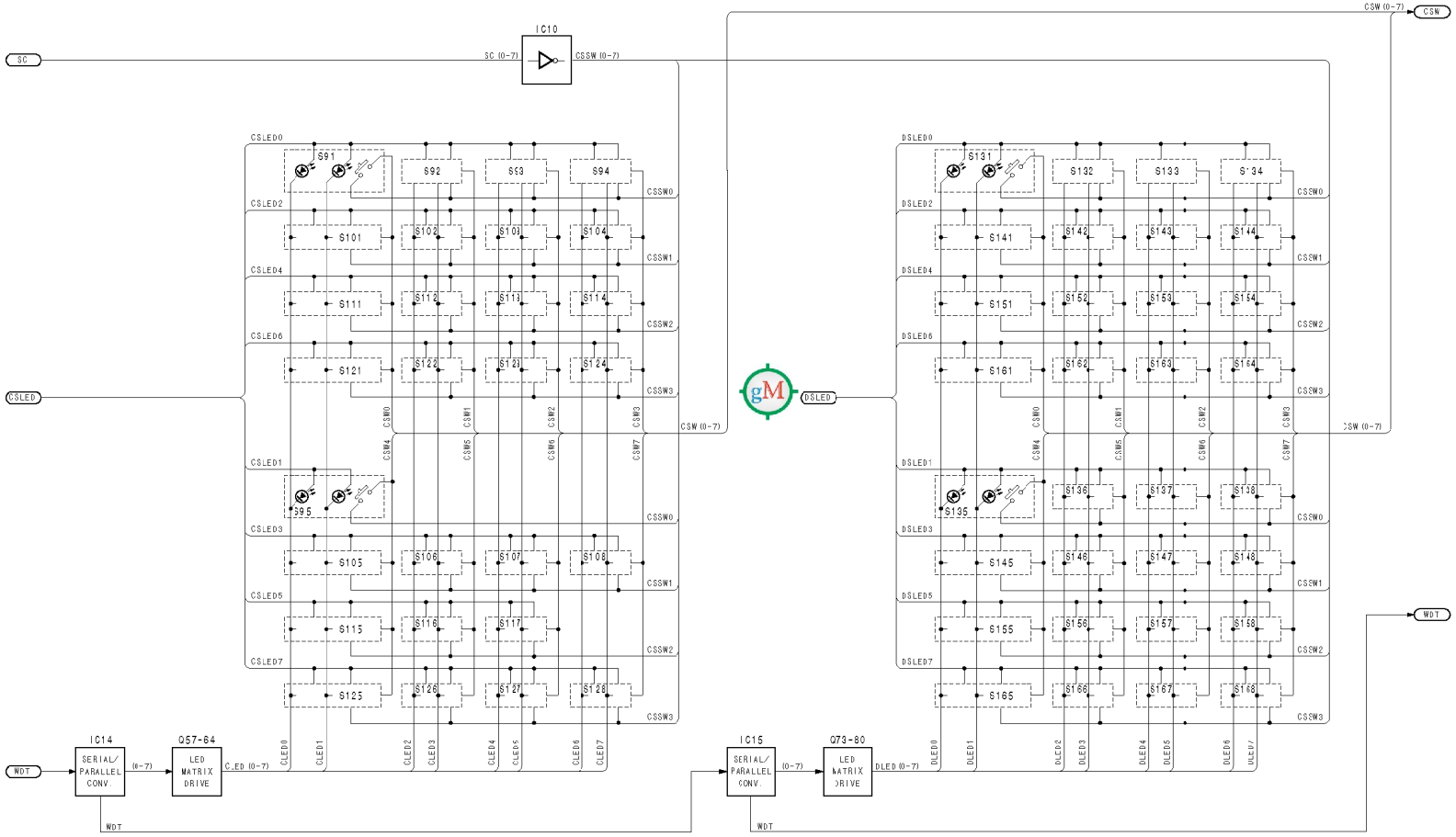
Switch Board
KY-441 (2/2)
BKDS-7017

KY-442, LE-207/208 and VR-250 BOARDS



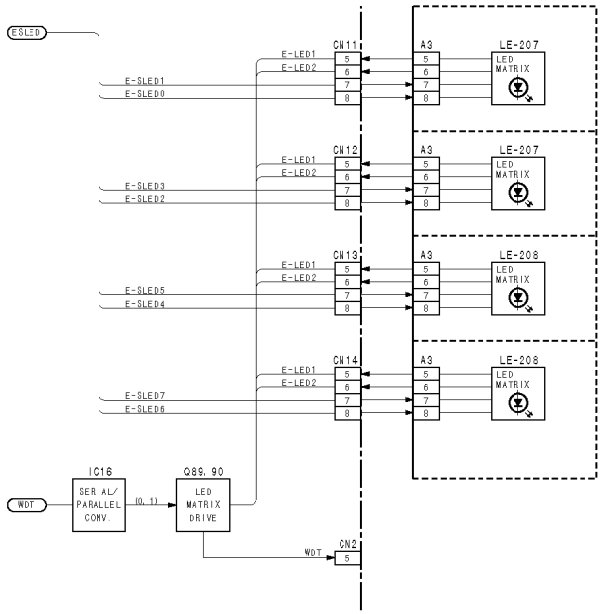
Switch Board
KY-442 (1/3)
BKDS-7016/70*6L

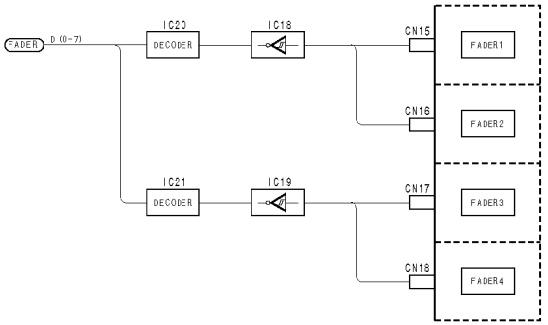
KY-442 (2/3) Switch Blocks

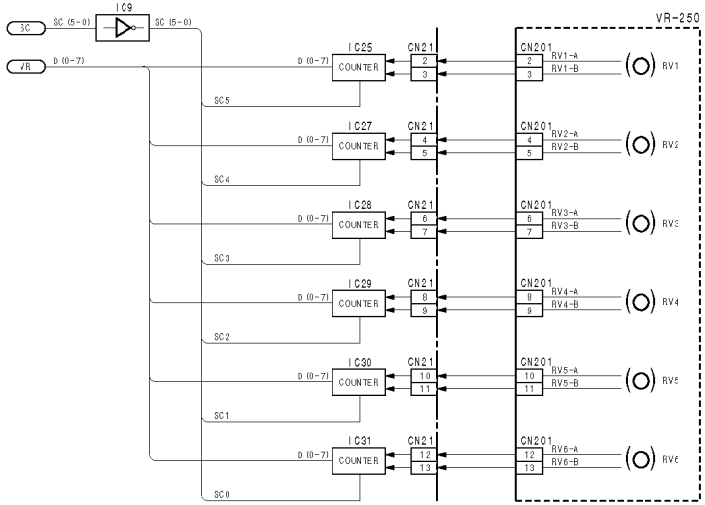


Switch Board
KY-442 (2/3)
BKDS-7016/7016L

3-14





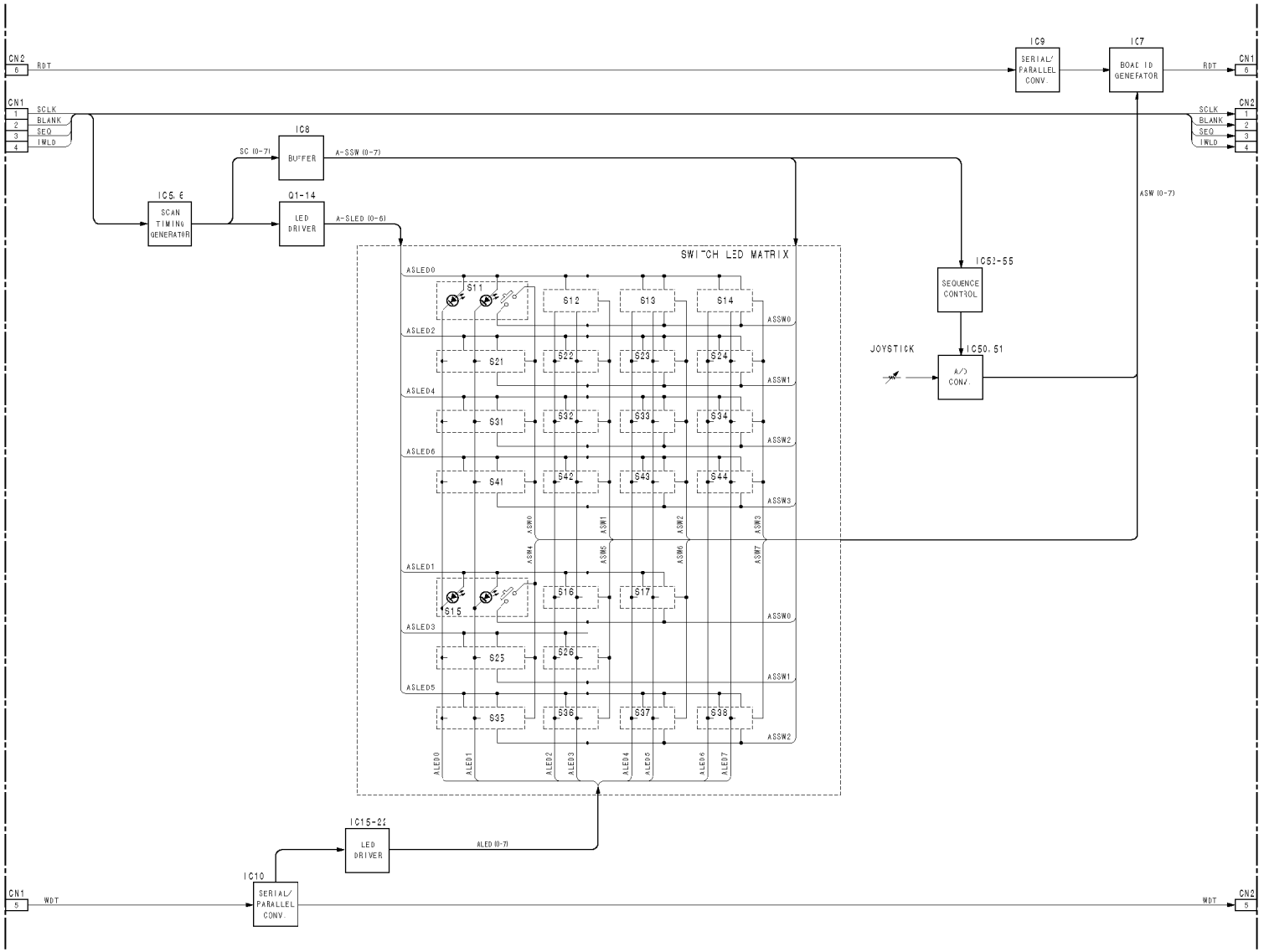


Switch Board
KY-442 (3/3)
BKDS-7016/7016L

LED Board
LE-207/208
BKDS-7016/7016L

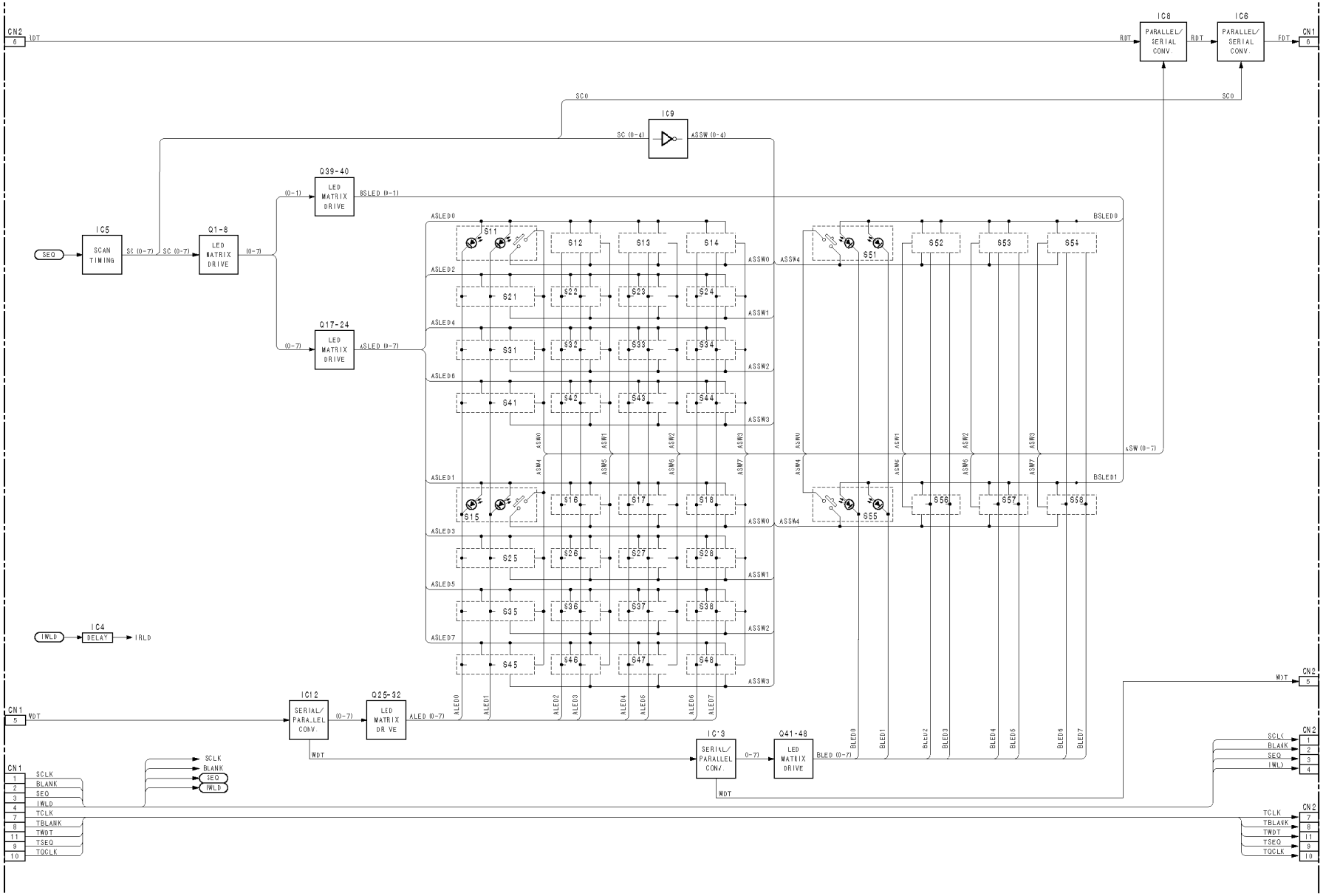
Rotary Encoder Board
VR-250
BKDS-7016/7016L

KY-443 BOARD



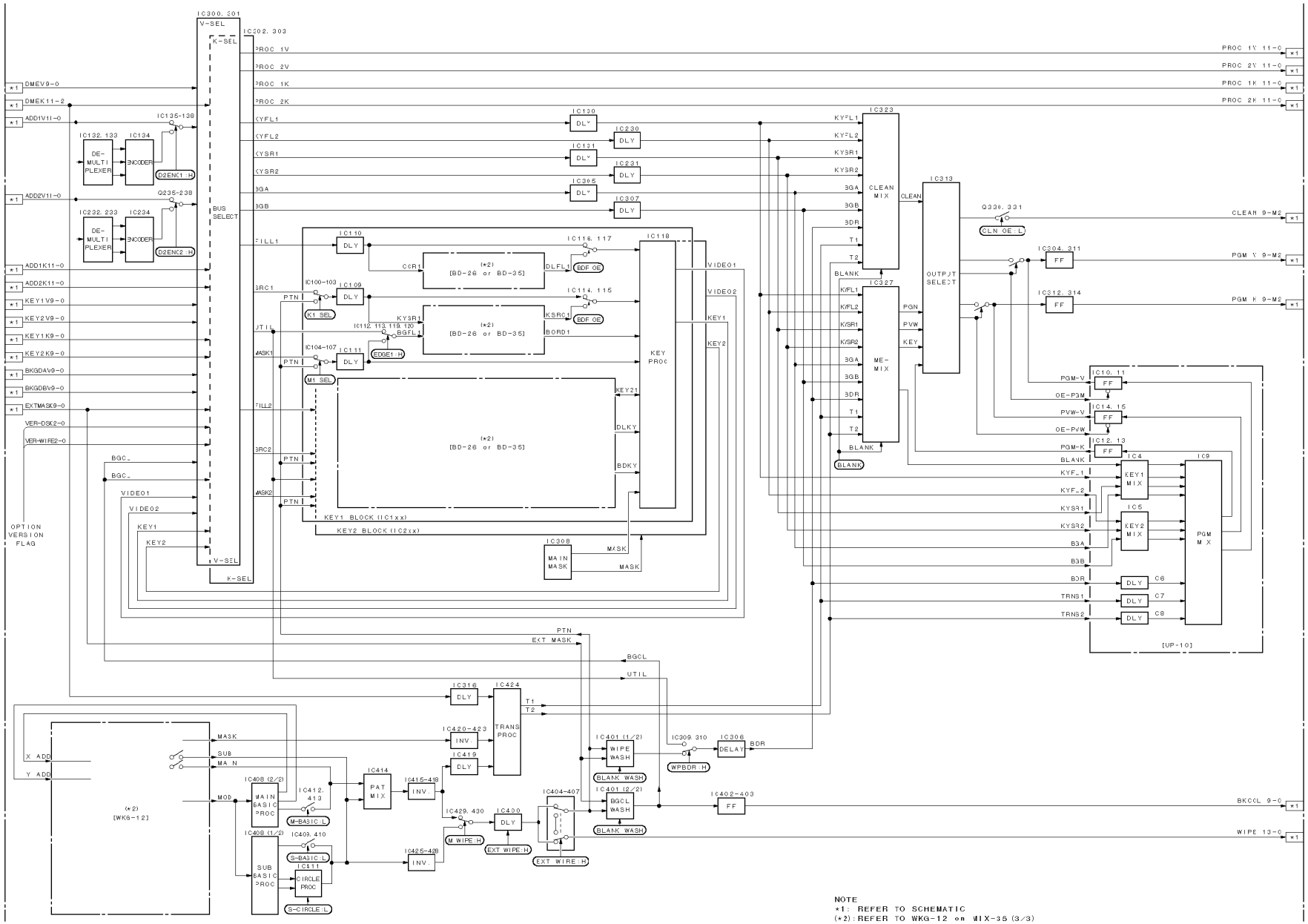
Switch Board
KY-443
B<DS-7016/7016L

KY-444 BOARD



Switch Board
KY-444
BKDS-7016

MIX-35, BD-26/35, UP-10 AND WKG-12 BOARDS



Video Mixer Board
MIX-35 (1/3)
DVS-7000/7200/7000A/7200A
BKDS-7250/7340
BKDS-7250 : FOR DVS-7200/7200A
BKDS-7340 : FOR DVS-7200/7200A

ME-PVW Board
UP-10
BKDS-7280
FOR DVS-7000/7200/7000A/7200A

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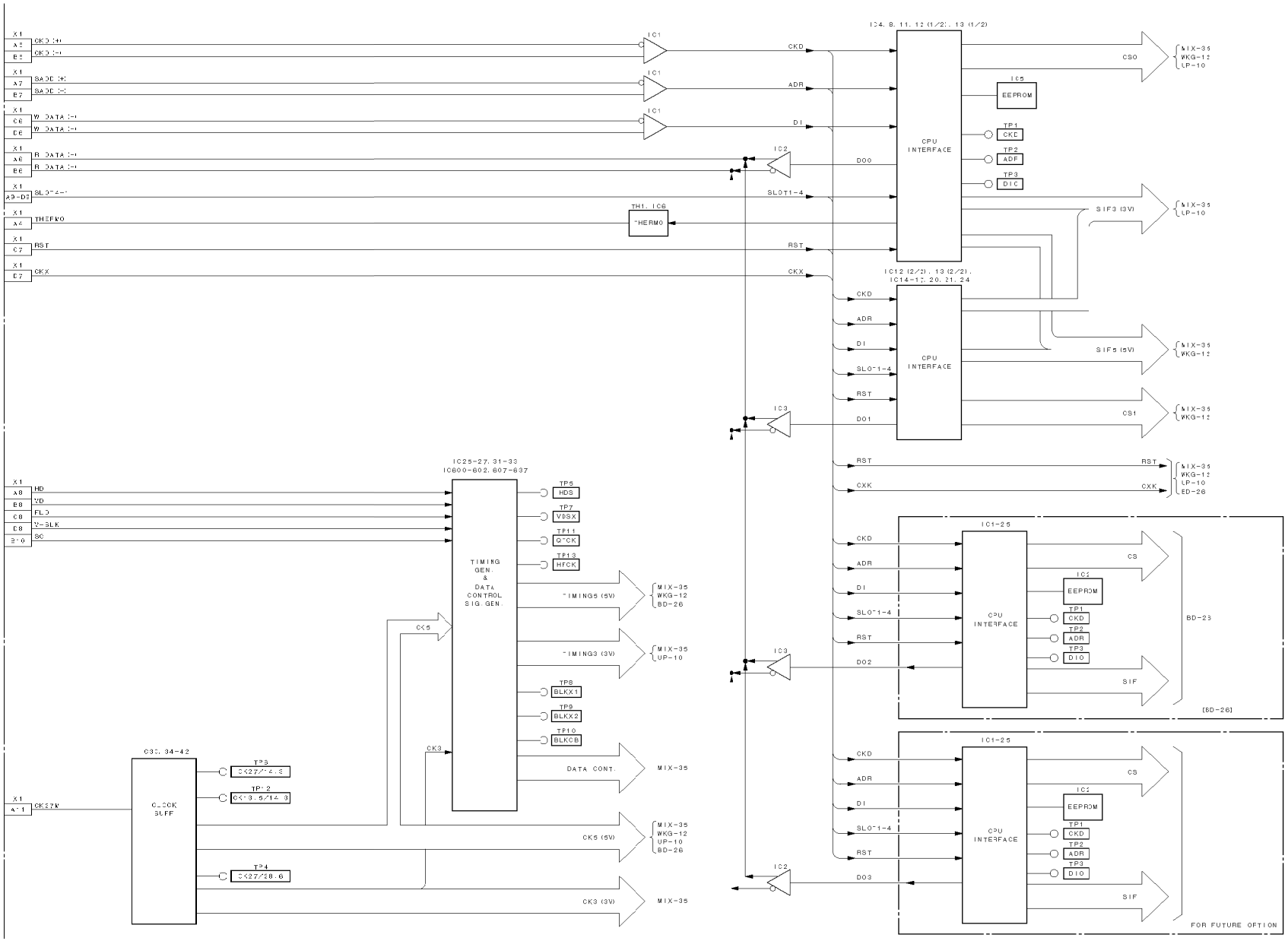
MIX-35 (2/3), BD-26 and WKG-12 Video Mixer Blocks



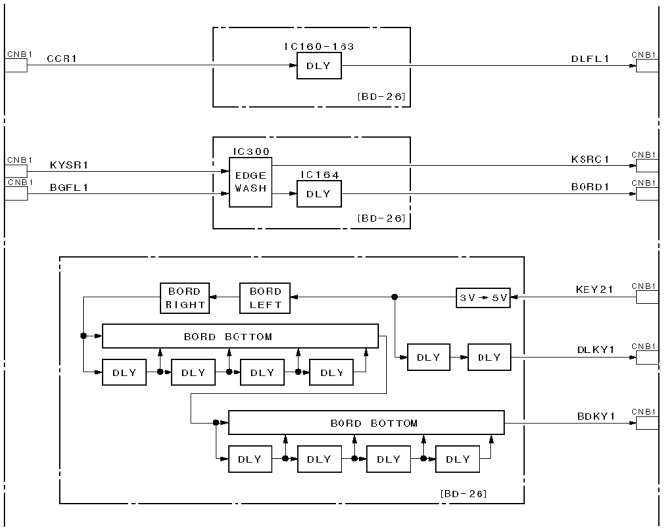
Video Mixer Board
MIX-35 (2/3)
DVS-7000/7200/7000A/7200A
BKDS-7250/7340
BKDS-7250 : FOR DVS-7200/7200A
BKDS-7340 : FOR DVS-7200/7200A

Key Border Board
BD-26
BKDS-7270
FOR DVS-M1000C/DVS-7000/7200/7000A/7200A

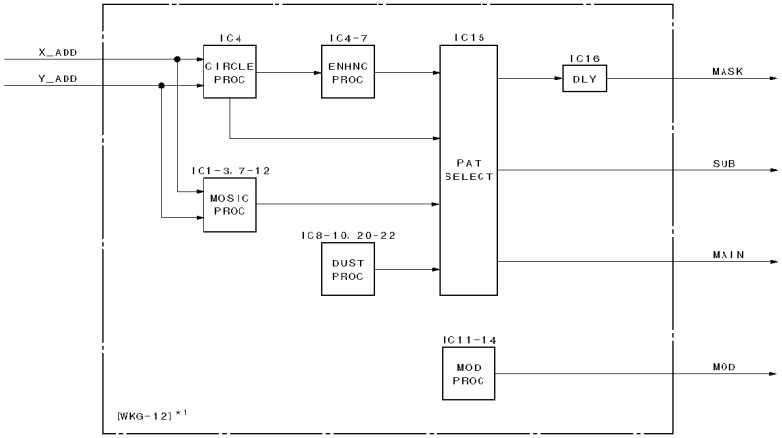
Enhanced Wipe Generator Board
WKG-12
BKDS-2070
FOR DVS-7000/7200/7000A/7200A

3-19

MIX-35 (3/3), BD-26/35 and WKG-12 Video Mixer Blocks

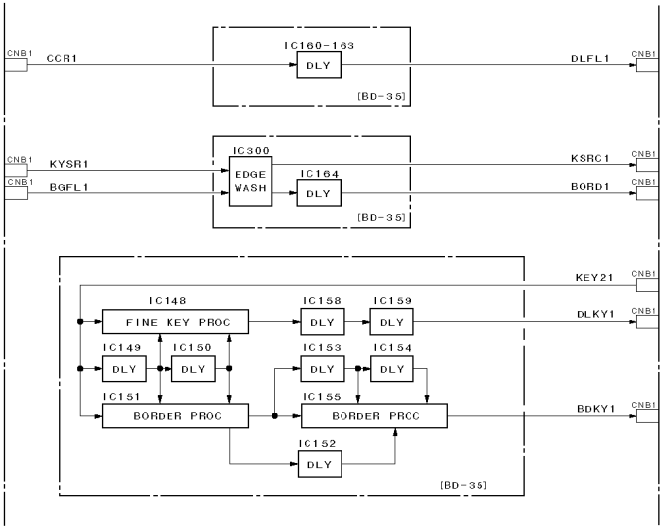


Key Border Board
BD-26
BKDS-7270
BKDS-7270 : FOR DVS-M1000C/DVS-7000/7200/7000A/7200A



*1 : (*2) on MIX-35 (1/3)

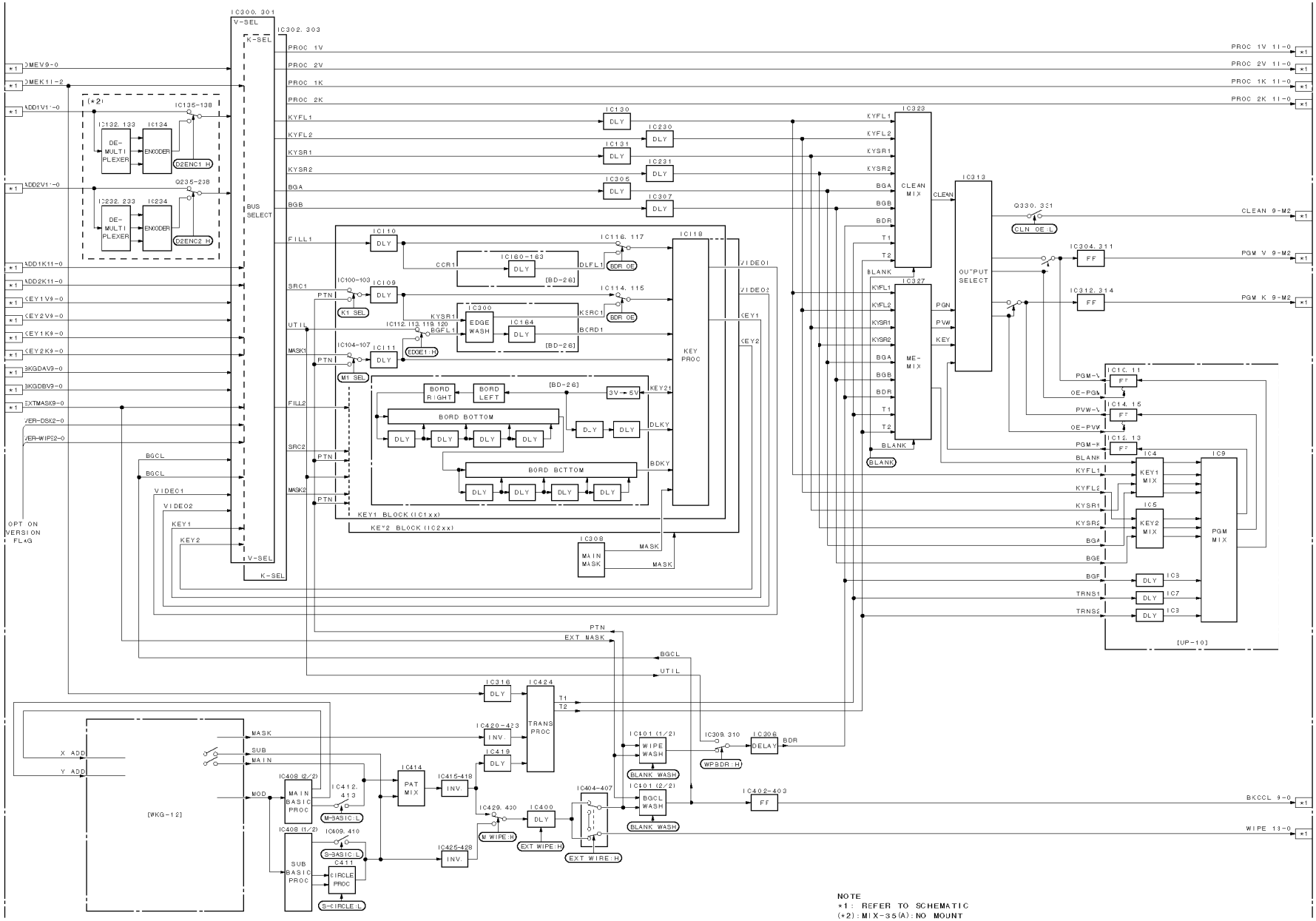
Enhanced Wipe Generator Board
WKG-12
BKDS-2070
FOR DVS-DVS-7000/7200/7000A/7200A



Key Border Board
BD-35
BKDS-7271
FOR DVS-7000A/7200A

3-20

MIX-35 (A)/35 (B), BD-26, UP-10 AND WKG-12 BOARDS

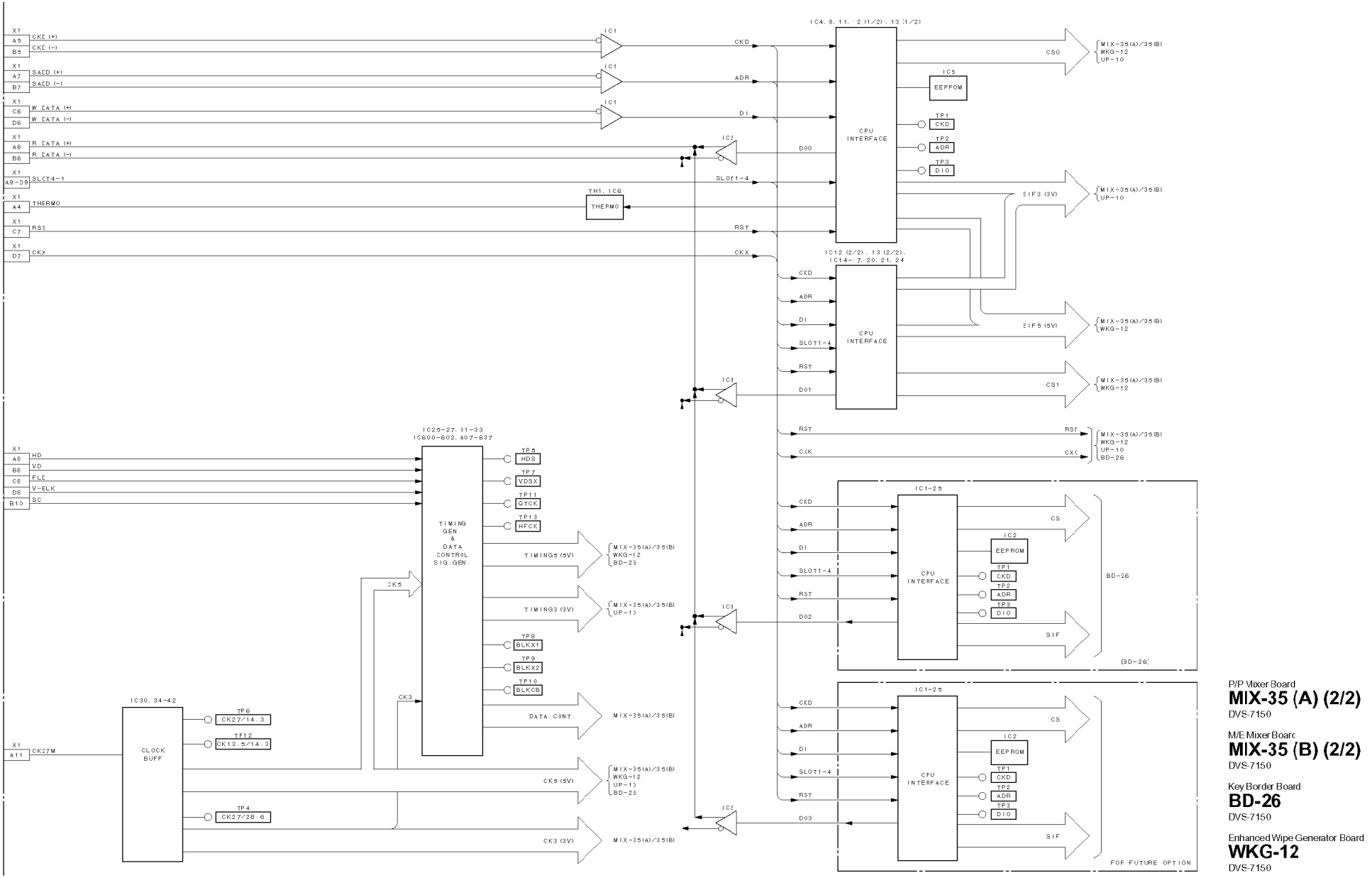


P/P Mixer Board
MIX-35 (A) (1/2)
DVS-7150

M/E Mixer Board
MIX-35 (B) (1/2)
DVS-7150

ME-PVW Board
UP-10
BKDS-7280
FOR DVS-7150

MIX-35 (A)/35 (B) (2/2), BD-26 and WKG-12 Video Mixer Blocks



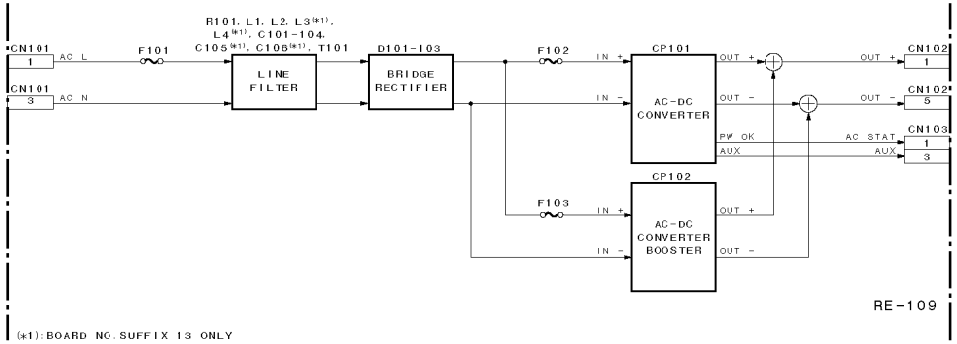
P/P Mixer Board
MIX-35 (A) (2/2)
DVS-7150

M/E Mixer Board
MIX-35 (B) (2/2)
DVS-7150

Key Border Board
BD-26
DVS-7150

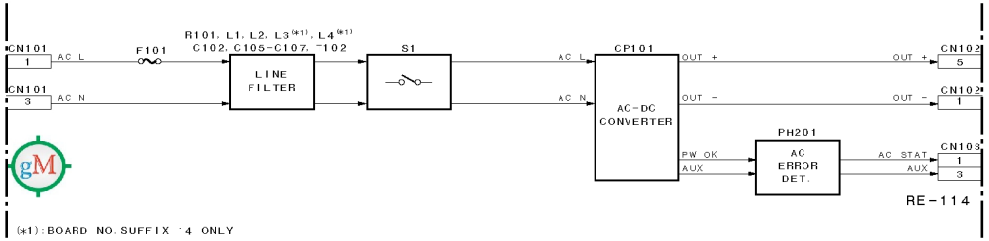
Enhanced Wipe Generator Board
WKG-12
DVS-7150

RE-109 BOARD



Power Supply AC-DC Board
RE-109
DVS-7000/7200/7000A/7200A
BKDS-7690
BKDS-7690 : FOR 7000/7200/7000A/7200A

RE-114 BOARD



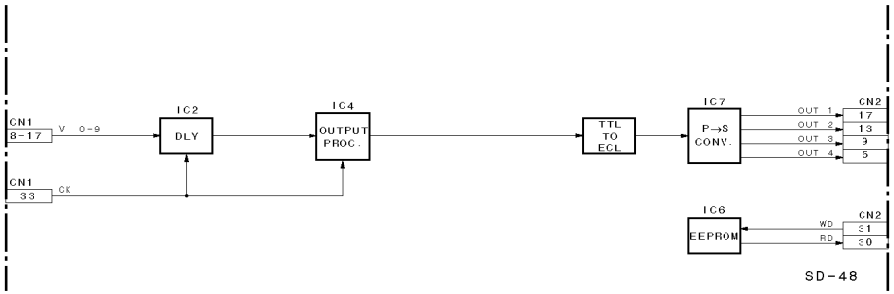
Power Supply AC-DC Board

RE-114

DVS-M1000C/DMK-7000/DVS-7150
BKDS-7691
BKDS-M1690

BKDS-7691 : FOR DMK-7000
BKDS-M1690 : FOR DVS-M1000C

SD-48 BOARDS



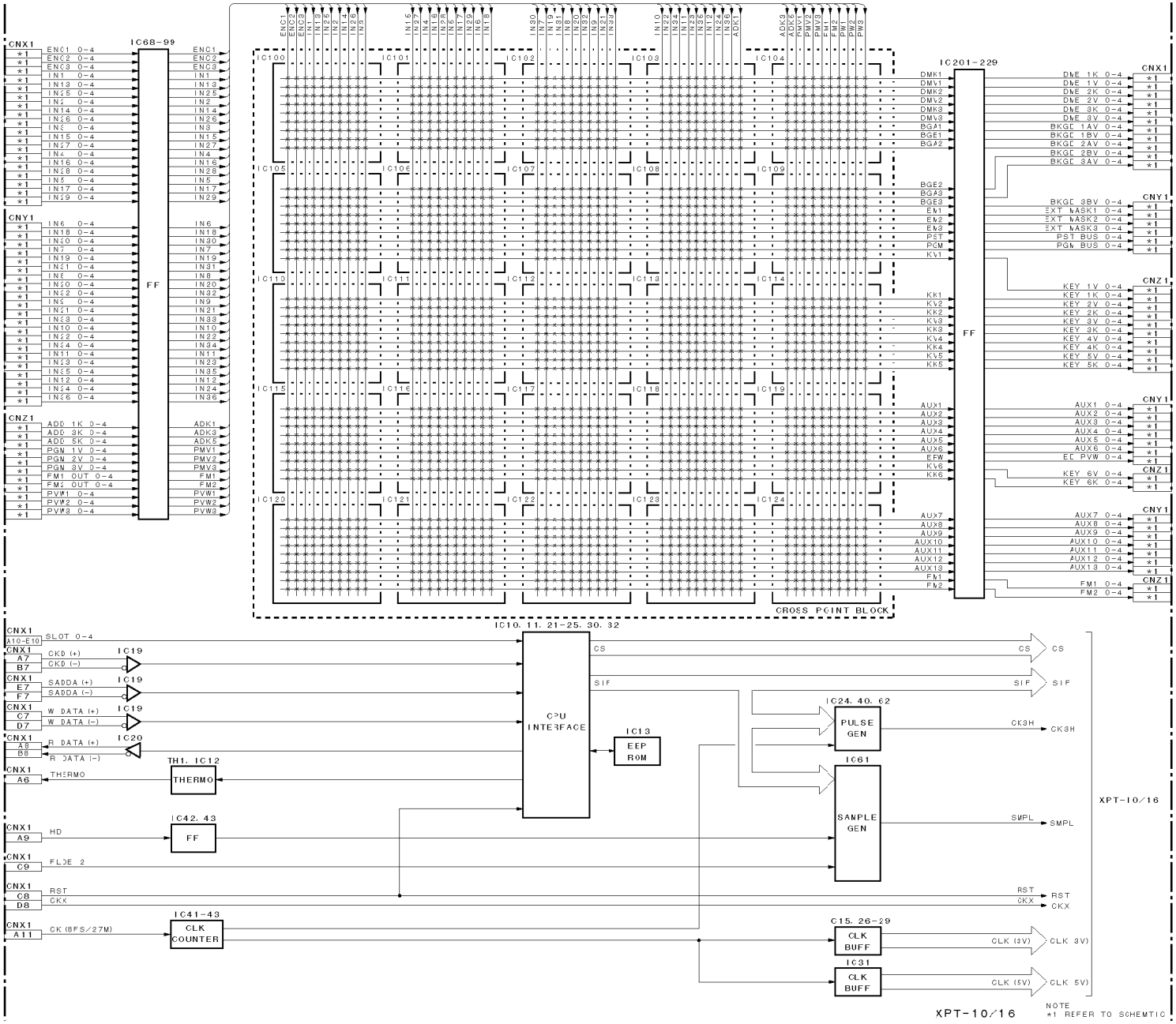
Serial Digital Output Eoard

SD-48

BKDS-7163

FOR DVS-7000A/7200A/7150

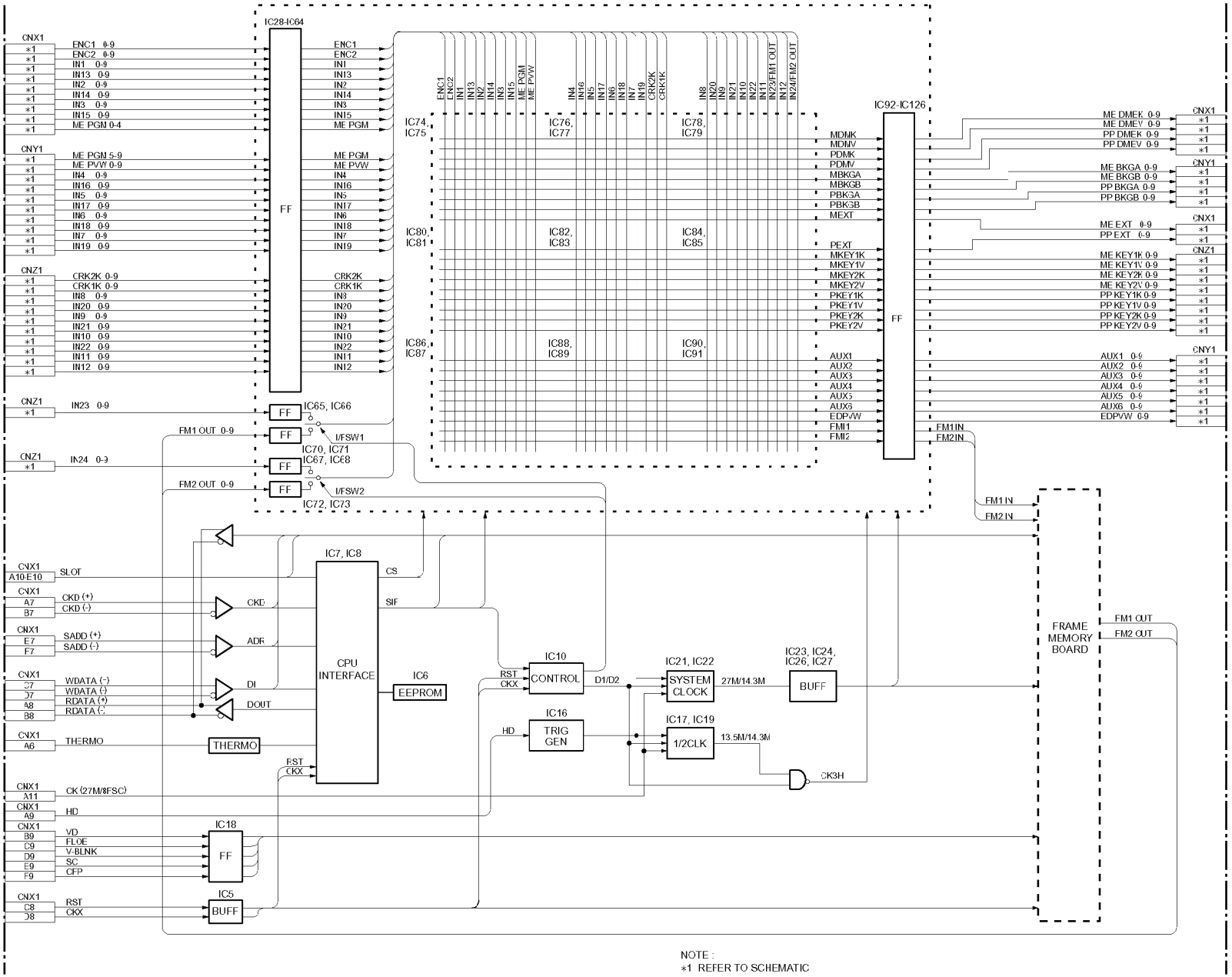
XPT-10/16 BOARDS



Cross Point Board
XPT-10
DVS-7000/7200

Cross Point Board
XPT-16
DVS-7000A/7200A

XPT-15 BOARD



NOTE :
*1 REFER TO SCHEMATIC